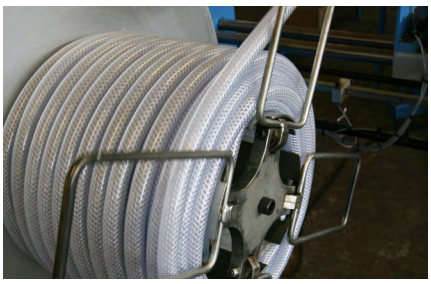
Design | Develop | Deliver

Copely

HOSE & TUBING
2026

copely.com

MADE IN BRITAIN



Going with the flow

Welcome to a brand-new product catalogue from a familiar name. Copely has for over 50 years been developing and extruding tube and hose solutions, to meet the demands of the UK market. We grow, we innovate and we manufacture right here in the UK using the highest quality standards that our customers have come to expect.

Our Passion

Copely's flair for innovation has brought with it many unique, very often pioneering, products into the marketplace.

By working in partnership with our customers and suppliers, Copely will continue to move forward and supply quality and diverse products to an expanding customer base, both inside and outside of the UK.

Through the development and customisation of our products we will strive to deliver solutions to customer problems and continue our success into the future.

The Environment

Global warming and the environment are becoming a far too familiar topic in the media today, and Copely understands it has a responsibility to its customers and the world. That's one reason we are advocates of using TPV to replace rubber. Read more on page 43.

Quality

The team at Copely have total commitment to quality and aim to deliver excellent customer care with complete reliability of supply.

Solutions

Should an 'off-the-shelf' solution not be available, we will always be happy to discuss new products or a custom solution. During product development, our experienced and dedicated project management team work closely with customers and material suppliers to ensure a quality product is delivered.

Contents

If you can't find what you're looking for or need some guidance on the best hose or tube solution for your project, then please do not hesitate to contact our friendly sales team on 0116 240 1500.

Category	Description	Page
Industrial	Tubes and hoses for a wide array of general industrial applications, carrying everything from air and water, to oil and chemicals.	**5 – 17**
Watering	Hoses for the conveyance of water in irrigation and in leisure.	**18 – 21**
Air	Our tried and tested range of air hoses for multiple uses.	**22 – 28**
Pneumatic	Tubing designed for pneumatic applications such as tools, machinery and vehicle brake lines.	**29 – 41**
Specialist	Our collection of tubes, hoses and accessories designed with specialist applications in mind.	**42 – 54**
Suction and Delivery	Suction hose is widely used for the movement of sewage, slurry, liquids, foodstuffs, particles and oils.	**56 – 69**
PVC Strip Curtains	Used for internal and external thermal partitions, as a barrier against fumes, dust or flying insects, birds etc.	**70 – 71**
Standards and Conversion Tables		**72 – 73**
Chemical Resistance Chart	Use this handy reference to see how specific materials react when in contact with certain chemicals and mixtures.	**74 – 81**
Index		**82 – 83**

Icon Key

Our unique set of icons has been created to help you find the right hose or tube product for your application more quickly.

Made in Britain

Crush Resistant

Food Quality

Kink Resistant

Phthalate Free

DEHP Free

Recyclable Materials

Anti-Static

Working Temperature

EU 10/2011 Compliant

UV

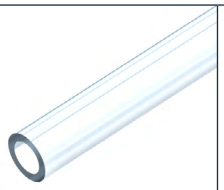
RoHS 3 Compliant

NSF 51 + 61 Compliant

Compliant with FDA Regulations

WRAS Approved Material

Buying Guide



Tube

A tube is an unreinforced pipe made from a single material.

Hose

A hose is a tube that is reinforced for strength, durability, or resistance to crushing.

PVC An excellent all round material which is widely used in numerous applications. PVC is the most cost effective material available and has a wide range of chemical resistance.	**PVC (Anti-static)** Anti-static properties prevent the build up of any static charge which is vital in explosive environments or where potentially explosive gases are used i.e. pure Oxygen. Copely offers different levels of anti-static properties from conductive to anti-static.	**Nylon (PA12)** Polyamide 12 (nylon) is the premium engineering polymer for all pneumatic tubes. Certified to DIN standards for use with vehicle air brake systems. Nylon can also be formed post extrusion to make a variety of shapes and coils.	**Polyurethane** Polyurethane (TPU) is a very strong and flexible material for use in a variety of applications. It has excellent kink and abrasion resistance properties. TPU is available in two forms – Ether which is good to use with water based applications and Ester which is better with oils.
LDPE Low Density Polyethylene is a good all round material for the manufacture of tubes. It is particularly good with drinking water due to its low taint characteristics.	**HDPE** High Density Polyethylene is much stronger than LDPE and is used mainly in our cores and tubes applications to provide high strength centres for the application of tape.	**PP** Polypropylene is a good strong all round material widely used in our cores and tubes.	**TPE** Thermoplastic Polyester Elastomers are highly flexible and strong materials. We use them mainly for liners in drinking water hoses due to WRAS approvals and zero taint.
PTFE Polytetrafluoroethylene (PTFE) is a synthetic fluoroploymer and is very chemically inert so has the widest resistance to chemicals available. It is the same material used to coat non-stick pans so it is also very hard wearing and has a very low coefficient of friction.	**TPV** Thermoplastic Vulcanizates (TPVs) are high-performance elastomers, which offer manufacturing flexibility, ease of processing and durability. They display a lot of the features and performance of rubber but are lighter weight and fully recyclable.	**PVDF** Polyvinylidene Fluoride (PVDF) is a highly non-reactive thermoplastic fluoropolymer which has high purity and great resistance to solvents, acids and bases. Copely has recently started extruding PVDF for demanding applications.	

Our History

Copely has been at the forefront of the thermoplastic hose and tube manufacturing industry for over 50 years, enjoying recognition throughout the world as a market leader. During this time, Copely has established a reputation for innovation in product design and associated process equipment, setting the global standard in hose and tube manufacture.

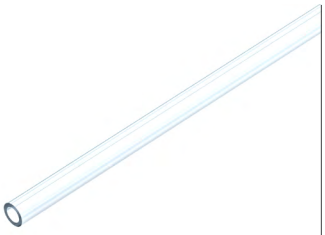
In 2010, Copely became part of the dynamic and successful COBA Group, marking another exciting chapter for our company. As a result, Copely now has even greater technical and logistical resources to support our design, manufacturing, technology and supply capabilities.

In August 2013, Copely acquired the trade and assets of Emplas Limited and have now combined the two businesses. For over 30 years Emplas produced quality UK made garden hose products to major retail groups along with precision PVC profiles for all manner of applications.

In June 2024, Copely acquired the assets and trade of Colex International Limited. The Colex portfolio of products now joins the dynamic COBA Plastics Group of companies spanning the UK, Germany, Slovakia, Romania and South Africa, supplying customers worldwide. Employing more than 650 people and with a turnover in excess of £60 million it is a significant player, driving for quality and innovation in each of the markets we serve.

Industrial

From simple clear PVC tubing designed for carrying liquids, to more technically sophisticated hoses and tubes designed for water, chemicals or more, our range of products for general industrial use is extensive. You'll find solutions for pharmaceutical and medical, through to pneumatic, industrial and even food and leisure vehicles. We are capable of producing hoses and tubes to exacting standards and tolerances, so that they enhance the reliability of the machines and applications in which they are used. You can always count on a Copely hose.

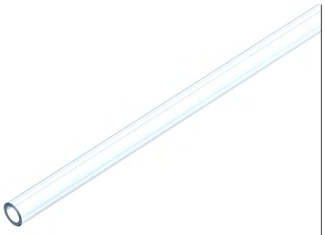


Clear Unreinforced PVC Hose
C Series
Clear PVC hose suitable for both low pressure food and industrial applications.
Page 7

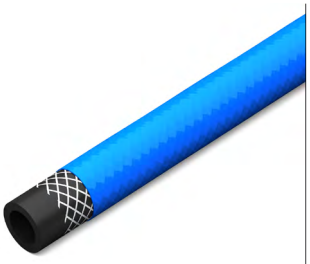
Glass Clear Reinforced PVC
CR Series
Glass Clear is an EC compliant, low toxic PVC hose.
Page 8

PVK Glass Clear PVC Hose
PVK Series
An economical, light duty hose ideal for multi-purpose use.
Page 9

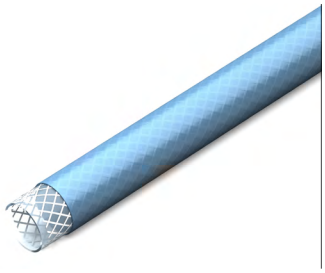
Polyurethane Reinforced Hose
CPR (RPU) Series
A polyurethane hose with outstanding elasticity and abrasion resistance.
Page 10



Polyurethane Unreinforced Hose
CUP (PU) Series
Non-phthalate ether polyurethane material, suitable for food contact applications and has good UV resistance.
Page 11



Multi-Purpose Reinforced PVC Hose
CX Series
A high quality, exceptionally flexible PVC hose.
Page 12



Air-Cord Ultra Flexible Air Hose
CXL Series
Air-Cord, ultra flexible light weight hose designed to be ergonomic.
Page 13

First Aid Fire Hose
FRH Series
Fully compliant with EN694, the renowned First Aid Fire Hose.
Page 14

Fluted Water Hose
GPW Series
A robustly constructed reinforced PVC 'fluted' hose.
Page 15

Multi-Purpose PU Lined Hose
RGN Series
Multi-purpose PU lined hose delivers exceptional durability and flexibility.
Page 16

Rubber Water Hose
RWH Series
A black heat, ozone and weather-resistant EPDM rubber hose.
Page 17

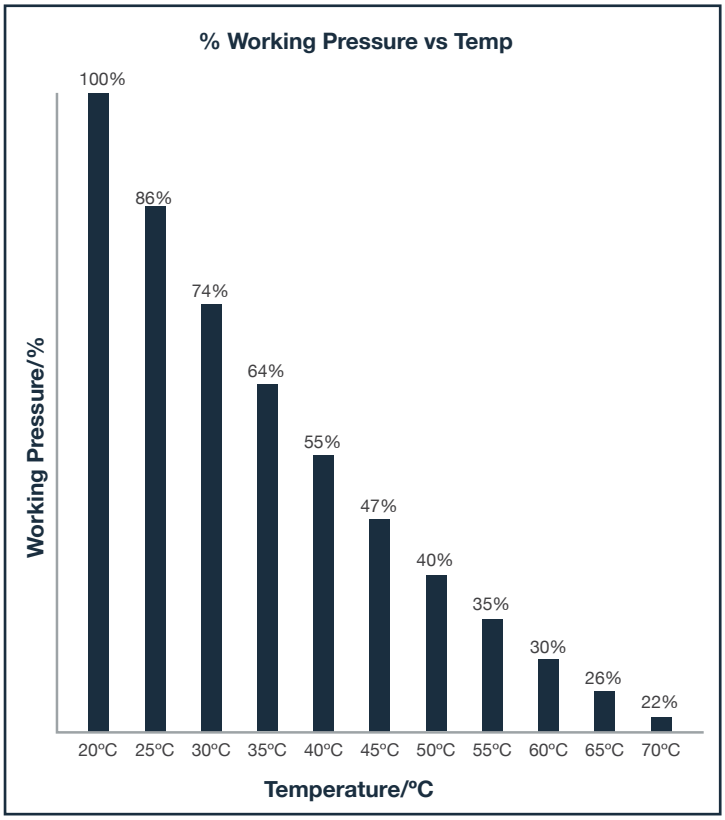
Burst Pressures and Working Temperatures

This graph provides a guide to the theoretic pressure capabilities of the Copely industrial range of hose and tube and can be used with the stated recommended working temperature range, to check suitability for a given application.

Any increase in temperature above 20°C will result in a decrease in the short term burst pressure. The short term burst pressure is defined as the value recorded when testing a hose from zero to burst pressure, in a single uninterrupted process.

Copely advise you do not exceed the recommended temperature range.

As the temperature falls the hose will become less flexible, the cold bend temperature being: –45°C for PVC & –70°C for polyurethane.



Safety Factors

- When selecting a hose it is vital that customers ensure an adequate safety factor for their application is taken into account.
- Below is an extract from BS EN ISO 7751 which will assist customers in providing a proven level of safety.
- Copely are not responsible if suitable safety margins are not used.

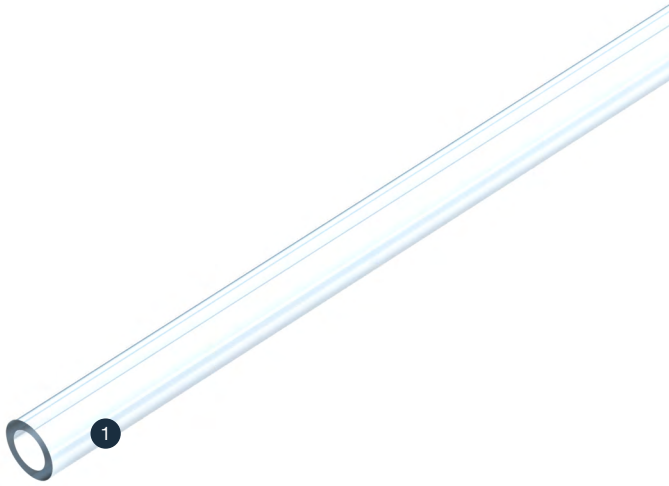
TYPE OF SERVICE (FOR GUIDANCE ONLY)	**RATIO OF MIN BP TO DESIGN WP**
Water hose, max WP 10 bar	3.0
Hose for all other liquids, solid materials suspended in liquids or air and water hose, WP over 10 bar	4.0
Hose for compressed air and other gases	4.0
Hose for liquid media that change into a gaseous state when subjected to a reduction in pressure, i.e. released to atmosphere	5.0
Steam hose	10.0
Jetting hose	2.5

CLEAR UNREINFORCED PVC HOSE

C Series

Copely

Clear PVC hose suitable for low pressure food and industrial applications. It is manufactured from the highest quality, low-toxic materials provides excellent clarity, flexibility and durability over a wide temperature range.



1. Phthalate free PVC

Key Features:

- Glass clear transparency for easy visibility.
- Excellent abrasion and corrosion properties for increased durability.
- Good flexibility for ease of use.
- Manufactured from cadmium and silicone-free materials using a special low toxic, odourless PVC formulation that can reduce the taint of drinking water.
- EU No.10/2011 compliant for food contact applications.
- RoHS 3 compliant.
- Suitable for use with alcohols, petrol, oils, greases and solvents.
- Highly resistant to a wide range of acids and alkalis.
- Service temperature = -15°C to & 60°C.
- NSF51 + NSF61 approved for the transfer of drinking water.

Sizes:

- 3 mm – 76 mm ID available from stock in 30 m coils

Colours:

- Clear

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Medical
- Scientific
- Pharmaceutical
- Industrial

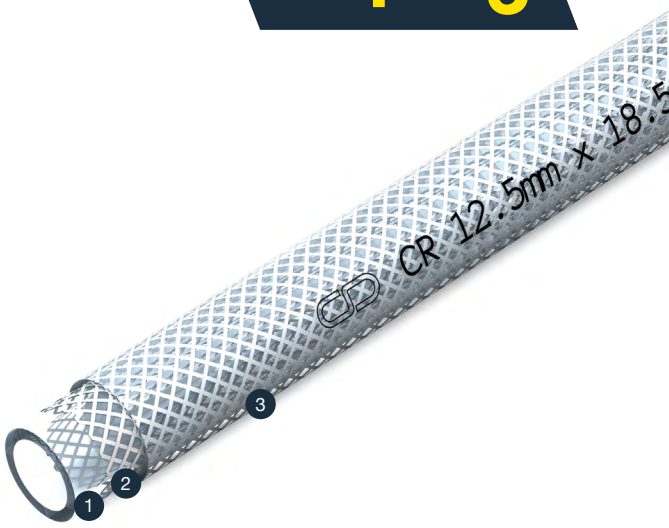
Product Ref	Internal Diameter	External Diameter	Weight per Meter	Bend Radius
C03/6	3 mm	6 mm	0.030 Kg	54 mm
C04/6	4 mm	6 mm	0.023 Kg	54 mm
C05/8	5 mm	8 mm	0.035 Kg	72 mm
C06/9	6 mm	9 mm	0.044 Kg	81 mm
C08/11	8 mm	11 mm	0.055 Kg	99 mm
C08/14	8 mm	14 mm	0.139 Kg	126 mm
C09/12	9 mm	12 mm	0.060 Kg	48 mm
C10/13	10 mm	13 mm	0.078 Kg	117 mm
C10/16	10 mm	16 mm	0.164 Kg	144 mm
C12/15	12 mm	15 mm	0.092 Kg	135 mm
C12/18	12 mm	18 mm	0.163 Kg	162 mm
C16/19	16 mm	19 mm	0.122 Kg	171 mm

Product Ref	Internal Diameter	External Diameter	Weight per Meter	Bend Radius
C16/22	16 mm	22 mm	0.220 Kg	198 mm
C19/22	19 mm	22 mm	0.151 Kg	198 mm
C19/25	19 mm	25 mm	0.262 Kg	225 mm
C22/28	22 mm	28 mm	0.325 Kg	252 mm
C25/31	25 mm	31 mm	0.320 Kg	279 mm
C32/38	32 mm	38 mm	0.402 Kg	241 mm
C32/42	32 mm	42 mm	0.640 Kg	378 mm
C38/44	38 mm	44 mm	0.471 Kg	323 mm
C38/48	38 mm	48 mm	1.000 Kg	432 mm
C50/59	50 mm	59 mm	0.940 Kg	387 mm
C50/61.5	50 mm	61.5 mm	1.208 Kg	554 mm
C60/72	60 mm	72 mm	1.518 Kg	432 mm
C76/88	76 mm	80 mm	1.886 kg	645 mm

GLASS CLEAR REINFORCED PVC

CR Series

Copely



CR is an EC compliant, low toxicity PVC hose widely used for a diverse range of applications including transfer of food, water, air, chemicals, gas, fuels and oils. This multi-purpose, high-quality all-round performer is one of the original hoses in the Copely range and remains universally popular today, especially for the conveyance of air and water.

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC

Key Features:

- Excellent clear-glass transparency for improved visibility.
- Good flexibility for ease of use.
- Resistant to a wide range of chemicals including many acids and alkalis.
- Abrasion resistant. Thicker wall gives medium to heavy duty durability for improved resistance to abrasion.
- Specially selected high tensile Polyester fiber reinforcement, used at the optimum braid angle of 54° 44'(54.73°), creates an effective and balanced pressure hose.
- EU No. 10/2011 compliant for food contact applications.
- RoHS 3 compliant.
- Manufactured from cadmium and silicone-free materials, using a specialist PVC that can reduce the taint of drinking water.
- Manufactured in accordance with ISO 5774.
- 4:1 safety factor.
- NSF 51 + NSF 61 approved for the transfer of drinking water.

Applications:

- Caravan industry
- Pharmaceutical
- Pneumatic tools
- Food/liquid substances

Sizes:

- 3 mm – 50 mm ID available from stock in 30 m coils
- 6mm – 19 mm ID also available from stock in 100 m coils

Colours:

- 6.3 mm – 12.5 mm - Red, Green, Blue, Yellow, Black
- 19 mm – 25 mm - Blue and Black
- Hi-Viz Yellow also available in 6.3 mm to 12.5 mm

Custom sizes and colours available on request subject to minimum order quantities

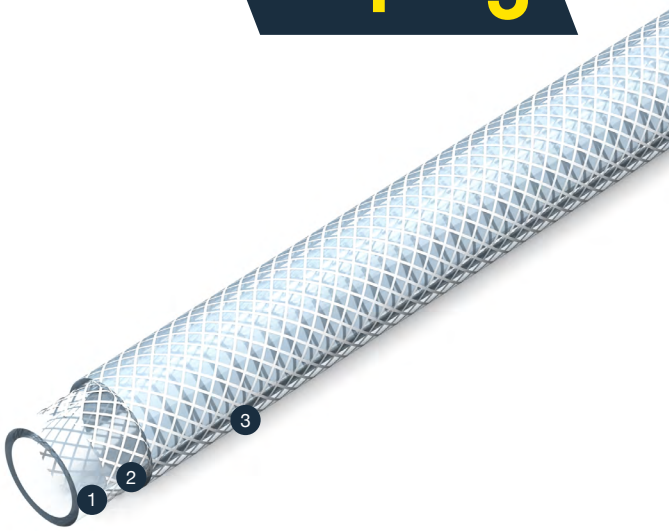
Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Meter	Bend Radius
CR03	3.2 mm	8 mm	32 Bar	128 Bar	0.056 Kg	20 mm
CR05	5 mm	10 mm	27 Bar	108 Bar	0.074 Kg	20 mm
CR06	6.3 mm	11.5 mm	16 Bar	64 Bar	0.093 Kg	28 mm
CR08	8 mm	13.5 mm	16 Bar	64 Bar	0.123 Kg	29 mm
CR10	10 mm	16 mm	15 Bar	60 Bar	0.163 Kg	40 mm
CR12	12.5 mm	18.5 mm	15 Bar	60 Bar	0.187 Kg	55 mm
CR16	16 mm	23 mm	12 Bar	48 Bar	0.269 Kg	95 mm

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Meter	Bend Radius
CR19	19 mm	26 mm	10 Bar	40 Bar	0.310 Kg	135 mm
CR22	22 mm	29 mm	10 Bar	40 Bar	0.347 Kg	160 mm
CR25	25 mm	32 mm	10 Bar	40 Bar	0.432 Kg	210 mm
CR32	32 mm	42 mm	10 Bar	40 Bar	0.684 Kg	320 mm
CR38	38 mm	48 mm	10 Bar	40 Bar	0.684 Kg	420 mm
CR50	50 mm	62 mm	8 Bar	32 Bar	1.476 Kg	650 mm

PVK GLASS CLEAR PVC HOSE

PVK Series

Copely



An economical, light duty hose ideal for multi-purpose use, PVK Glass Clear is especially popular for industrial airline equipment. It can also be used for food contact applications. Manufactured from transparent, low toxic PVC and reinforced with high tensile Polyester fiber reinforcement.

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC

Key Features:

- An effective and functional choice for a diverse range of applications, especially when budget is a factor.
- Glass clear clarity for excellent visibility.
- Excellent resistance to abrasion.
- Manufactured from cadmium and silicone-free materials using a special low toxic, odourless PVC formulation that can reduce the taint of drinking water.
- Suitable for food, water, chemicals, gas, fuel and oils.
- EU No.10/2011 compliant for food contact applications.
- RoHS 3 compliant.
- Highly resistant to a wide range of acids and alkalis.
- Service temperature: -15°C – + 60°C.
- Specially selected high tensile polyester fibres used at the optimum braid angle of 54° 44'(54.73°) creates an effective and balanced pressure hose.
- Manufactured in accordance with BS EN ISO 6224.
- 3:1 safety factor at 23°C.
- NSF 51 + NSF 61 approved for the transfer of drinking water.

Applications:

- Pharmaceutical
- Scientific
- Food/liquid substances
- Pneumatic tools
- General industrial

Sizes:

- 6.3 mm – 50 mm ID available from stock in 30 m coils.

Colours:

- 6.3 mm – 12.5 mm - Red, Green, Blue, Yellow, Black
- 16 mm – 25 mm - Blue and Black

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
PVK06	6.3 mm	10.5 mm	10 Bar	30 Bar	0.086 Kg	30 mm
PVK08	8 mm	12 mm	10 Bar	30 Bar	0.082 Kg	40 mm
PVK10	10 mm	14 mm	10 Bar	30 Bar	0.103 Kg	50 mm
PVK12	12.5 mm	17.5 mm	10 Bar	30 Bar	0.143 Kg	60 mm
PVK16	16 mm	20 mm	10 Bar	30 Bar	0.164 Kg	80 mm
PVK19	19 mm	24 mm	10 Bar	30 Bar	0.270 Kg	95 mm
PVK25	25 mm	31 mm	10 Bar	30 Bar	0.390 Kg	125 mm
PVK32	32 mm	40 mm	8 Bar	24 Bar	0.576 Kg	175 mm
PVK38	38 mm	46 mm	8 Bar	24 Bar	0.632 Kg	250 mm
PVK50	50 mm	60 mm	6 Bar	18 Bar	1.104 Kg	400 mm

POLYURETHANE REINFORCED HOSE

CPR Series

Copely

An extremely flexible and durable polyurethane hose that can be used in a wide variety of applications. Suitable for both drinking water and food contact applications as well as a wide range of industrial applications. Highly abrasion resistant and can be used across a wide temperature range.

1. Polyether based thermoplastic polyurethane
2. Polyester fibre reinforcement
3. Polyether based thermoplastic polyurethane

Key Features:

- Manufactured from polyether polyurethane for use in a wide range of applications.
- Glass clear for excellent visibility.
- Suitable for use with drinking water, food, fuels, oils, greases, solvents, chemicals and gasses.
- WRAS approved raw material for use in drinking water applications.
- EU10/2011 and FDA approved material for use in food contact applications.
- Wide temperature range: -30°C – +70°C with occasional use up to 100°C.
- Exceptional abrasion resistance.
- Excellent levels of kink resistance.
- Phthalate free and RoHS3 compliant.

Sizes:

- 6.3 mm – 25 mm ID available from stock in 30m coils

Colours:

- Clear

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Lubrication lines
- Hydraulic lines
- Granular transfer
- Robotics
- Oil & fuel lines
- Cement slurries
- Petroleum products
- Abrasive products

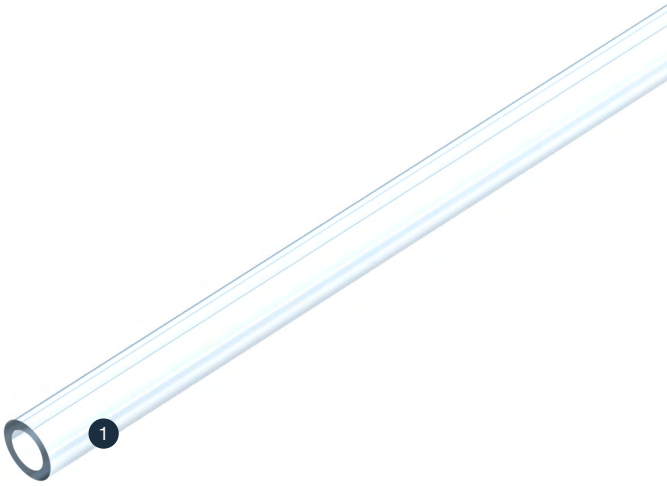
Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
CPR06	6.3 mm	11.5 mm	20 Bar	60 Bar	0.084 Kg	22 mm
CPR10	10 mm	16 mm	17 Bar	50 Bar	0.141 Kg	37 mm
CPR12	12.5 mm	18.5 mm	15 Bar	45 Bar	0.168 Kg	49 mm
CPR16	16 mm	23 mm	13 Bar	40 Bar	0.247 kg	65 mm
CPR19	19 mm	26 mm	12 Bar	35 Bar	0.284 kg	84 mm
CPR25	25 mm	33 mm	10 Bar	30 Bar	0.417 Kg	118 mm

UNREINFORCED POLYURETHANE TUBE

PU Series

Copely

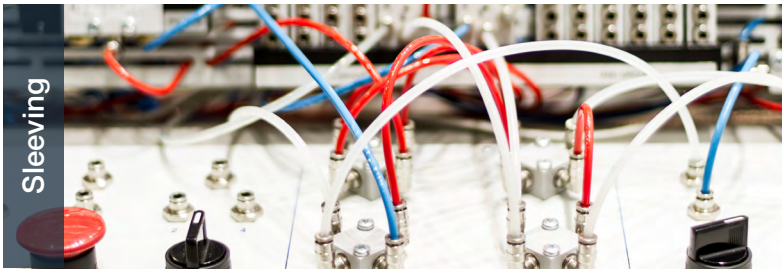
An extremely flexible and durable polyurethane tube that can be used in a wide variety of applications. Suitable for both drinking water and food contact applications as well as a wide range of industrial applications. Highly abrasion resistant and can be used across a wide temperature range.



1. Polyether based thermoplastic polyurethane

Key Features:

- Manufactured from polyether polyurethane for use in a wide range of applications.
- Glass clear for excellent visibility.
- Suitable for use with drinking water, food, fuels, oils, greases, solvents, chemicals and gasses.
- WRAS approved raw material for use in drinking water applications.
- EU10/2011 and FDA approved material for use in food contact.
- Wide temperature range: -30°C – +70°C with occasional use up to 100°C.
- Exceptional abrasion resistance.
- High levels of kink resistance.
- Phthalate free and RoHS3 compliant.



Sizes:

- 5 mm – 13 mm ID available from stock in 30m coils

Colours:

- Clear

Applications:

- Drinking water
- Food manufacturing
- Abrasive products
- Lubrication lines
- Oil and fuel lines
- Petroleum Products
- Chemical transfer
- Control instrumentation

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Weight per Metre	Bend Radius
PU05/8	5 mm	8 mm	0.034 Kg	17 mm
PU06/9	6 mm	9 mm	0.040 Kg	22 mm
PU06/12	6 mm	12 mm	0.096 Kg	19 mm
PU08/11	8 mm	11 mm	0.050 Kg	32 mm
PU08/14	8 mm	14 mm	0.117 Kg	26 mm
PU10/16	10 mm	16 mm	0.138 Kg	34 mm
PU13/19	13 mm	19 mm	0.170 Kg	48 mm

MULTI-PURPOSE REINFORCED PVC HOSE

CX Series

Copely

A high quality, exceptionally flexible PVC hose born out of technical innovation and superior quality materials that now stands a firm favourite for industrial use. Lightweight, its ergonomic design reduces operator fatigue and associated strains, helping to improve overall productivity without compromising on performance and durability.

Key Features:

- Extremely flexible.
- Lightweight and user-friendly.
- Excellent kink-resistance.
- RoHS 3 compliant.
- High resistance to acids and alkalis.
- Good abrasion resistance.
- Silicone-free.
- Service temperature -15°C – +60°C.
- Conforms to ISO 5774.
- 4:1 safety factor at +20°C.

Sizes:

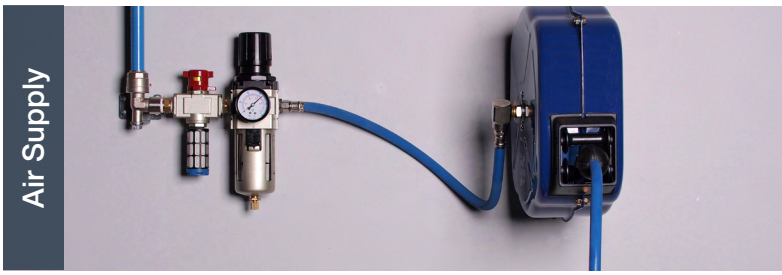
- 6.3 mm – 19 mm ID available from stock in 30 m coils

Colours:

- Black
- Blue
- Red (6 mm – 12 mm)

Custom sizes and colours available on request subject to minimum order quantities

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC outer



Applications:

- Air/water supply
- Production lines
- Pneumatic tools

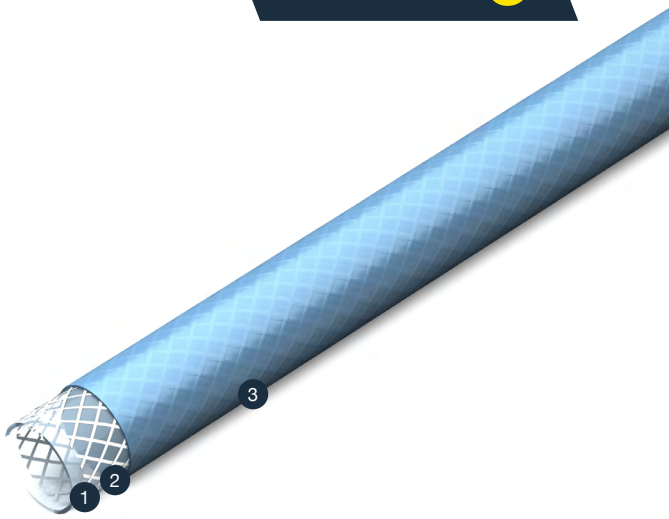
Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
CX06	6.3 mm	10.5 mm	18 Bar	75 Bar	0.074 Kg	28 mm
CX08	8 mm	12.5 mm	15 Bar	60 Bar	0.105 Kg	29 mm
CX10	9.75 mm	13.75 mm	13 Bar	52 Bar	0.105 Kg	40 mm
CX12	12 mm	17 mm	11 Bar	44 Bar	0.167 Kg	55 mm
CX16	16 mm	21.5 mm	11 Bar	44 Bar	0.233 Kg	95 mm
CX19	19 mm	24.5 mm	11 Bar	44 Bar	0.268 Kg	135 mm

AIR-CORD ULTRA FLEXIBLE AIR HOSE

CXL Series

Copely

Air-Cord, as used by the largest air tool manufacturer in the world, is a revelation in super-supple, premium quality hosing, considered to be the lightest air tool hose of its type, featuring Braidlok technology for optimum performance.



1. Modified high strength Phthalate free PVC
2. Reinforced fiber reinforcement
3. Super flexible Phthalate free PVC

Key Features:

- Exceptional flexibility and memory for maximum air flow.
- Ultra lightweight for ease of use.
- Effective oil resistance.
- Superior kink-resistance.
- Cadmium-free.
- Silicone-free.
- RoHS 3 compliant.
- Distinctive metallic blue finish.
- Service temperature -15°C – +60°C.
- Conforms to ISO 5774.
- 3:1 safety factor at +23°C.

Sizes:

- 6 mm – 12 mm ID available from stock in 30 m coils

Colours:

- Metallic blue

Applications:

- Air tools
- General industrial use for water, chemicals and gas

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
CXL06	6 mm	8.65 mm	14 Bar	42 Bar	0.042 Kg	28 mm
CXL08	8 mm	11.25 mm	14 Bar	42 Bar	0.056 Kg	39 mm
CXL10	10 mm	12.95 mm	12 Bar	36 Bar	0.069 Kg	40 mm
CXL12	12 mm	16.25 mm	11 Bar	33 Bar	0.108 Kg	55 mm

FIRST AID FIRE HOSE
FRH Series

Copely

Fully compliant with EN694, the renowned First Aid Fire Hose combines the benefits of both rubber and PVC to produce a superior quality, reliable product that is today a European market leader in the emergency hose market.

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC

Key Features:

- Exceeds the requirements of EN694.
- Good flexibility and durability.
- Balanced and lightweight for easier handling.
- Outstanding UV / Ozone resistance making it suitable for indoor and outdoor use.
- Type A construction consisting of a seamless rubber/PVC lining; a textile reinforcement with an elastomeric rubber/plastics cover.
- Cadmium and silicone free.
- Resistant to a wide range of chemicals.
- 3:1 safety factor.
- RoHS 3 compliant.

Sizes:

- 19 mm & 25 mm ID available from stock in 30 m coils

Colours:

- Red outer / black inner

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Fixed fire reel hoses in buildings –exterior or interior.

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
FHR19	19 mm	26 mm	12 Bar	42 Bar	0.360 Kg	135 mm
FHR25	25 mm	34 mm	12 Bar	42 Bar	0.632 Kg	210 mm

FLUTED WATER HOSE
GPW Series

Copely

A robustly constructed reinforced PVC ‘fluted’ hose which has proven to be the preferred choice for building site contractors and for use in agriculture for the conveyance of water.

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC

Key Features:

- Durable ‘fluted’ protective outer cover designed to minimise friction.
- Flexible for ease of handling.
- Excellent abrasion resistance.
- Outstanding UV / Ozone resistance.
- Cadmium and Silicone free.
- Conforms to BS 3746: 1990.
- 3:1 safety factor.
- RoHS 3 compliant.

Sizes:

- 13 mm, 19 mm & 25 mm ID available from stock in 40 m coils

Colours:

- Black

Applications:

- Building sites
- Agricultural

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
GPW13	13 mm	17.5 mm	7 Bar	21 Bar	0.167 Kg	65 mm
GPW19	19 mm	26 mm	7 Bar	21 Bar	0.350 Kg	135 mm
GPW25	25 mm	32 mm	7 Bar	21 Bar	0.470 Kg	210 mm

MULTI-PURPOSE PU LINED HOSE
RGN Series

Copely

Copely multi-purpose PU lined hose delivers exceptional durability and flexibility.

Manufactured in the UK, this anti-abrasive Polyurethane (PU) and PVC compound hose with polyester yarn reinforcement is ideal for pneumatic tools in general, anti-abrasive applications and water based paint sprayers.

The PU lining material also has WRAS approval for use with drinking water applications.

1. **WRAS approved PU material**
2. **Phthalate free PVC mid layer**
3. **Polyester fibre reinforcement**
4. **Phthalate free PVC outer**

Key Features:

- Smooth inner surface.
- Excellent flexibility.
- Good abrasive resistance.
- Manufactured from a WRAS approved material
- EU 10/2011 compliant for food contact application.

Sizes:

- 6 mm – 13 mm ID available from stock

Colours:

- Metallic green

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Air tools
- Abrasive material transfer
- Drinking water application
- Transfer of food substances
- Paint spraying equipment

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Minimum Burst Pressure	Bend Radius (Approx.)	Length
RGN06	6 mm	10 mm	2 mm	20 Bar	60 Bar	20 mm	100 m
RGN08	8 mm	12 mm	2 mm	20 Bar	60 Bar	22 mm	60 m
RGN10	10 mm	15 mm	2.5 mm	20 Bar	60 Bar	28 mm	50 m
RGN13	13 mm	19 mm	3 mm	20 Bar	60 Bar	65 mm	30 m
RGN19	19 mm	26 mm	3.5 mm	20 Bar	60 Bar	120 mm	MTO
RGN25	25 mm	32 mm	3.5 mm	20 Bar	60 Bar	140 mm	MTO

RUBBER WATER HOSE
RWH Series

A versatile rubber water hose for the use of conveying hot and cold water in all applications. Manufactured from heat, ozone and weather resistant EPDM rubber. Suitable for temperatures up to + 120°C and sub-zero temperatures as low as -40°C. Compliant with SAEJ20R3 for use as a radiator hose in automotive and stationary engine applications.

Key Features:

- Resistant to ozone, heat and weathering.
- Good abrasion resistance.
- Compliant with SAEJ20R3
- Resistant to hot oil spray and all engine coolants.
- Excellent kink resistance
- DEHP, Phthalate free and RoHS3 compliant.
- Wide temperature range: -40°C – +120°C

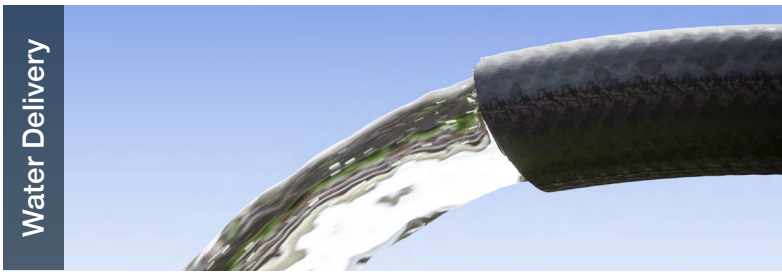
Sizes:

- 10mm – 25mm ID available from stock in 20m coils

Colours:

- Black

1. **EPDM Rubber inner**
2. **Polyester fibre reinforcement**
3. **EPDM Rubber outer**



Applications:

- Water delivery
- Engine cooling systems
- Slurry handling
- Boilers and Heating systems

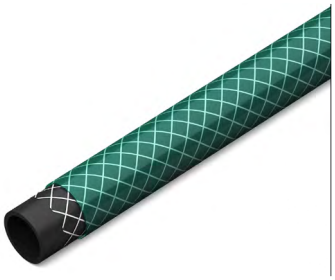
Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius (Approx.)
RWH10	10 mm (3/8")	17 mm	10 Bar	30 Bar	0.29 Kg	70 mm
RWH13	13 mm (1/2")	20 mm	10 Bar	30 Bar	0.43 Kg	85 mm
RWH19	19 mm (3/4")	28 mm	10 Bar	30 Bar	0.7 Kg	170 mm
RWH25	25 mm (1")	34 mm	10 Bar	30 Bar	1 Kg	250 mm

Watering

The reliable conveyance of fresh, clean water from its source to its intended use seems simple, but is vitally important in many situations. From professional growers whose crops depend on regular watering, and golf courses that simply must keep the green ‘GREEN’, to the passionate gardener who waters every day but struggles endlessly with kinks and knots. Copely’s range of hoses designed for watering has been refined over several decades, with each separate solution having at least one benefit that is unique.

ExtraFlex Reinforced PVC Water Hose
GHY Series
Extraflex is perhaps the most versatile hose available today.
Page 19

Aquaflex®
AQF Series
Aquaflex®, an outstanding all-terrain UV resistant irrigation hose.
Page 20



Reinforced Garden Hose
GH Series
A hugely popular garden hose that is supplied for domestic and professional use.
Page 21

EXTRAFLEX REINFORCED PVC WATER HOSE

GHY Series

Copely

Extraflex is perhaps the most versatile hose available today with its unique low temperature characteristics and outstanding flexibility in any climatic condition.

This abrasion resistant hose is reinforced with high tensile polyester cord and the first choice of the Professional in any market sector. Extraflex is already a familiar sight in demanding applications throughout Europe. Look for the distinctive yellow colour and brand mark on every coil.

The above specification far exceeds the requirements of British Standard BS 3746 for water hoses.

1. Phthate free PVC
2. Polyester fiber reinforcement
3. Phthalate free PVC

Key Features:

- High flexibility.
- Silicone free.
- Good abrasion resistance.
- Made from Cadmium free materials.
- Good resistance against kinking.
- Outstanding all year round flexibility.
- Polyester fibre reinforcement.
- Premium quality inner.
- Exceeds BS 3746:1990.

Applications:

- Watering
- Agriculture – Irrigation
- Industrial use
- Horticulture

Sizes:

- Available from stock in 25 m and 50 m coils

Colours:

- Yellow with black inner

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre
GHY12	12.5 mm	17.5 mm	10 Bar	30 Bar	0.144 Kg
GHY19	19.25 mm	25.5 mm	8 Bar	24 Bar	0.298 Kg
GHY25	25 mm	32.5 mm	6 Bar	18 Bar	0.440 Kg

AQUAFLEX®
AQF Series

Copely

1. High strength Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free UV resistant PVC cover

Aquaflex®, an outstanding all-terrain UV resistant irrigation hose that delivers exceptional durability, flexibility and water flow performance.

Manufactured in the UK, Aquaflex® kink resistant water hose is the ideal heavy-duty choice for all irrigation purposes, as well as for water supply and delivery applications.

The multi-layered construction of Aquaflex®, using custom formulated materials and our exclusive high tensile braiding reinforcement technology, delivers superior flexibility and resilience in all weather conditions, ensuring performance levels that exceed those of comparable products in the professional hose market.

Key Features:

- UV resistant.
- Highly flexible – ease of handling.
- Abrasion and kink resistance.
- Ultra smooth liner ensuring water flow performance.
- Resistant to repeated pulling, bending, crushing.
- Available in 25 m, 50 m and 100 m coils.
- RoHS 3 compliant.

Sizes:

- 12.5 mm, 19 mm & 25 mm ID available from stock in 25 m, 50 m and 100 m coils
- All other sizes make to order

Applications:

- Horticulture, Fruit and Vegetable growers
- Golf clubs
- Agriculture
- Landscaping
- Industrial
- Construction
- Public sector

Colours:

- Yellow

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
AQF12	12.5 mm	17.5 mm	2.5 mm	16 Bar	48 Bar	0.158 Kg	100 mm
AQF16	16 mm	21 mm	2.75 mm	15 Bar	45 Bar	0.214 Kg	120 mm
AQF19	19 mm	25.5 mm	3.25 mm	13 Bar	39 Bar	0.313 Kg	160 mm
AQF25	25 mm	32.5 mm	3.75 mm	8 Bar	24 Bar	0.465 Kg	200 mm
AQF32	32 mm	40 mm	3 mm	8 Bar	24 Bar	0.576 Kg	250 mm
AQF38	38 mm	46 mm	4 mm	8 Bar	24 Bar	0.632 Kg	320 mm
AQF50	50 mm	62 mm	5 mm	8 Bar	24 Bar	0.672 Kg	450 mm

EDEN REINFORCED GARDEN HOSE
GH Series

Copely

Copely Developments manufacture garden hoses in the UK for multiple DIY chains and garden centre groups under their own labels. We also manufacture our own range of garden hoses under the Eden Brand. The hoses are produced from UK sourced materials and are of a higher quality and greater strength than most imported options.

Eden Green Garden Hose
For the Weekly Waterer

Eden Green is the ideal medium-duty, general purpose garden hose for all domestic needs. Renowned for its flexibility, performance and reliability, it is suitable for all routine and general watering applications.

Eden Yellow Garden Hose
For the Avid Gardener

Eden Yellow's anti-kink performance and tough outer layer make it the most cost-effective and high quality choice for the more frequent watering applications.

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. DEHP free PVC outer

CUSTOM SIZES MADE TO ORDER

Speak to us about your requirements:

- Hose length and colour can be bespoke
- Can be supplied with or without fittings
- Packaging can be made to suit your branding

Air

Copely is recognised as being the largest European manufacturer of high quality medical gas hose and is the market leader in anaesthesia hose following decades of innovation and development. We also have hoses designed for environments where ESD is important, and where compressed air is used. We are even able supply compressor hose assemblies without the need to source additional fixings. Our customers have been depending on our air hoses for years, and we are well-known for the quality and reliability of our product. As a UK manufacturer we not only pride ourselves on high standard of product but also superior customer service.

Flexible ESD Anti-Static Hose

ESD Series

Designed specifically for electro-static sensitive environments.

Page 23

Anti-Static PVC Medical Gas Hose

BRN Series

A high quality medical gas hose.

Page 24

Super Air 20

SA Series

Super Air 20 is manufactured from superior quality PVC.

Page 25

Rubber Air Hose

RAH Series

A black, weather and ozone resistant compressed air hose.

Page 26

General Purpose Air Hose

GPA Series

GPA is the cost-effective, high-performance TPE alternative to rubber hosing.

Page 27

Compressor Hose Assembly

Page 28

FLEXIBLE ESD ANTI-STATIC HOSE

ESD Series

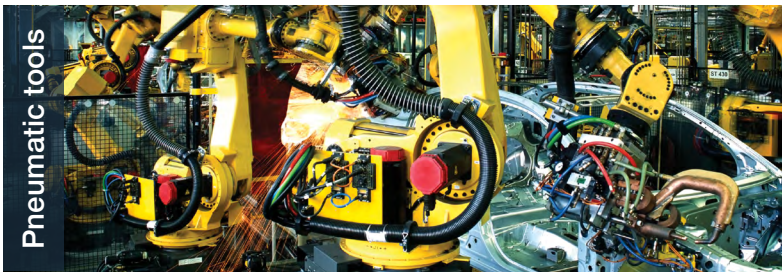
Copely

Designed specifically for electro-static sensitive environments the, Anti-Static Hose is the effective hosing solution for areas prone to with potentially damaging static build-up. Widely used by the electronics industry and developed in collaboration with a leading manufacturer of pneumatic tools.

1. Anti-Static PVC
2. Phthalate free PVC
3. Polyester fiber reinforcement
4. Phthalate free PVC

Key Features:

- Effective anti-static properties to reduce the risk of electro-static damage.
- Highly flexible, reinforced PVC hose.
- Tested in accordance with BS ISO 2878.
- Electrical resistance between 1 x 10^4 Ω/m per metre – 1 x 10^6 Ω/m.
- Cadmium and silicone-free.
- Resistant to a wide range of chemicals.
- Abrasion-resistant.
- Specially selected high tensile polyester fibres used at the optimum braid angle of 54° 44'(54.73°) creates an effective and balanced pressure hose.
- Service temperature -15°C to – 60°C.
- 4:1 safety factor.
- RoHS 3 compliant.



Applications:

- Pneumatic tools and equipment
- Electronics industry

Sizes:

- Available from stock in 30 m coils

Colours:

- Black inner / Clear outer

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
ESD06	6.25 mm	11 mm	10 Bar	40 Bar	0.122 Kg	30 mm
ESD08	8 mm	12 mm	9 Bar	36 Bar	0.101 Kg	40 mm
ESD10	10 mm	14 mm	8 Bar	32 Bar	0.123 Kg	55 mm
ESD12	12.75 mm	18 mm	7 Bar	28 Bar	0.163 Kg	55 mm

ANTI-STATIC MEDICAL GAS HOSE

BRN/BRNPU Series

Copely

Copely is recognised as being the largest European manufacturer of high quality medical gas hose and is the market leader in anaesthesia hose following decades of innovation and development.

Key Features:

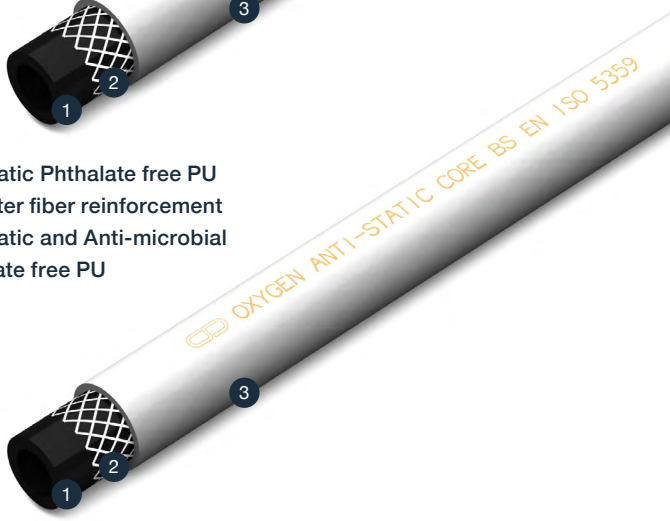
- Reinforced anti-static, low toxic liner.
- Specially selected high tensile Polyester fiber reinforcement used at the optimum braid angle of 54° 44' (54.73°) creates an effective and balanced pressure hose.
- Exceptional performance and renowned for reliability.
- Conforms to BS EN ISO 5359 meeting the current criteria for use with low pressure medical gases.
- Cadmium and silicone free.
- Carefully selected materials conforming to BS ISO 2878 Electrical Conductivity.
- Medical colour standards.
- Striped hoses for mixed gases.
- Resistant to a wide range of chemicals.
- Laser printed for clarity and cleanliness.
- RoHS 3 compliant.

Colours:

- White Outer = Oxygen
- Blue Outer = Nitrous Oxide
- Yellow Outer = Medical Vacuum
- Black Outer = Medical air
- Grey = Carbon Dioxide
- White with 4 blue stripes = Mixed Gas

Custom sizes and colours available on request subject to minimum order quantities

1. Anti-static Phthalate free PU
2. Polyester fiber reinforcement
3. Anti-static and Anti-microbial Phthalate free PU



1. Anti-static Phthalate free PVC
2. Polyester fiber reinforcement
3. Anti microbial Phthalate free PVC

Applications:

- Medical

SUPER AIR 20
SA Series

Copely

Super Air 20 is manufactured from superior quality PVC specifically selected and developed for higher working pressures in both low and high temperature environments. The softer PVC provides increased flexibility which is carefully counter-balanced with reinforcement for a longer life expectancy.

Key Features:

- Superior performance in both low and high temperature conditions.
- Extremely flexible and durable.
- Excellent abrasion, ageing and UV resistance minimal.
- Good anti-kink characteristics and minimum flow loss.
- Low toxicity.
- Highly resistant to a wide range of chemicals.
- Service temperature -15°C – +60°C.
- Specially selected high tensile Polyester fiber reinforcement used at the optimum braid angle of 54° 44'(54.73°) creates an effective and balanced pressure hose.
- 3:1 safety factor.
- RoHS 3 compliant.

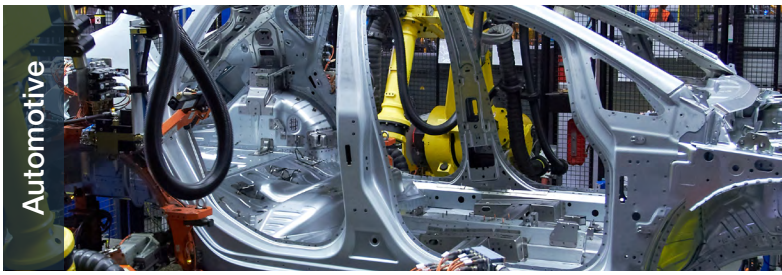
Sizes:

- 10 mm, 12.5 mm and 19 mm available from stock in 50 m coils

Colours:

- Beige

1. **Phthalate free flexible PVC**
2. **Polyester fiber reinforcement**
3. **Super flexible PVC Phthalate free**



Applications:

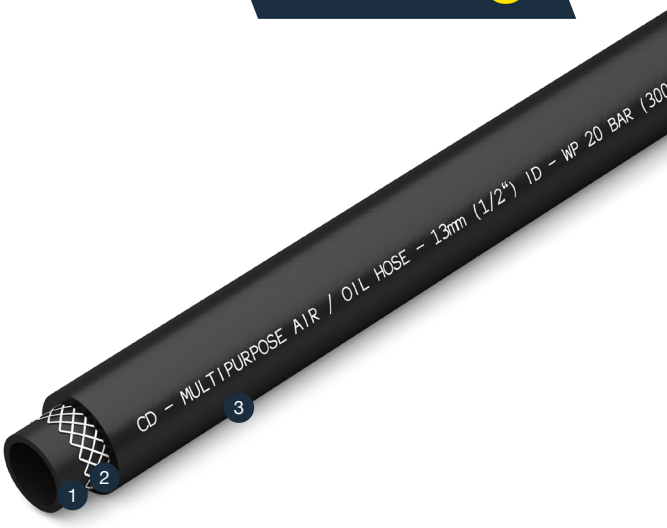
- Automotive
- General industrial
- Garage forecourt / outdoor environment
- Agricultural

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
SA06	6.3 mm	11 mm	20 Bar	63 Bar	0.138 Kg	22 mm
SA08	8 mm	13 mm	20 Bar	63 Bar	0.173 Kg	30 mm
SA10	10 mm	15.5 mm	20 Bar	63 Bar	0.230 Kg	48 mm
SA12	12.7 mm	19 mm	20 Bar	63 Bar	0.340 Kg	65 mm
SA16	16 mm	23 mm	20 Bar	63 Bar	0.451 Kg	85 mm
SA19	19 mm	26.5 mm	20 Bar	63 Bar	0.604 Kg	110 mm
SA25	25 mm	33 mm	20 Bar	63 Bar	0.823 Kg	135 mm

RUBBER AIR HOSE
RAH Series

Copely



A black, weather and ozone-resistant compressed air hose suitable for general workshop use and compressors.

Manufactured from NBR / SBR Suitable for medium- duty service with air synthetic rubber with high tensile synthetic textile reinforcement. Medium duty service for air and pneumatic tools including workshops with compressors, mines, quarries and construction applications.

Key Features:

- Abrasion, ozone and weather resistant.
- Smooth rubber NBR / SBR construction.
- In accordance with EN ISO 2398.
- Wide temperature range – 40°C – +90°C.
- Safety factor 3:1.

Sizes:

- Available from stock in 25 m coils

Colours:

- Black

1. **NBR/SBR Rubber inner**
2. **Polyester fibre reinforcement**
3. **NBR/SBR Rubber outer**

Applications:

- Construction
- General workshop use
- Compressors
- Mines
- Quarries

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius (Approx.)
RAH06	6 mm	12 mm	20 Bar	60 Bar	0.18 Kg	60 mm
RAH08	8 mm	15 mm	20 Bar	60 Bar	0.23 Kg	80 mm
RAH10	10 mm	17 mm	20 Bar	60 Bar	0.29 Kg	100 mm
RAH13	13 mm	21 mm	20 Bar	60 Bar	0.43 Kg	130 mm
RAH16	16 mm	25 mm	20 Bar	60 Bar	0.60 Kg	160 mm
RAH19	19 mm	29 mm	20 Bar	60 Bar	0.70 Kg	190 mm
RAH25	25 mm	36 mm	20 Bar	60 Bar	1 Kg	250 mm

GENERAL PURPOSE AIR HOSE
GPA Series

Copely

GPA is the cost-effective, high-performance TPE alternative to rubber hosing. While looking and feeling like rubber, it has many advantages including a longer lifespan. Manufactured from a hard wearing PVC Nitrile blend, this ergonomically-friendly super-flexible product is a real winner in many industrial environments.

Key Features:

- A universal performer suitable for conveying many chemicals, solvents, fuels, oils, greases, compressed air and water.
- PVC Nitrile blend provides excellent aabrasion.
- Clean, flexible and user-friendly.
- Reduced Plasticiser migration.
- High visibility stripe.
- Excellent resistance to UV / Ozone.
- Silicone and Cadmium free.
- Service Temperature – 15°C to – 60°C.
- 3:1 safety factor.
- RoHS 3 compliant.
- Manufactured to BS EN ISO 5774 (Plastic hoses. Textile-reinforcement types for compressed-air applications.)

Sizes:

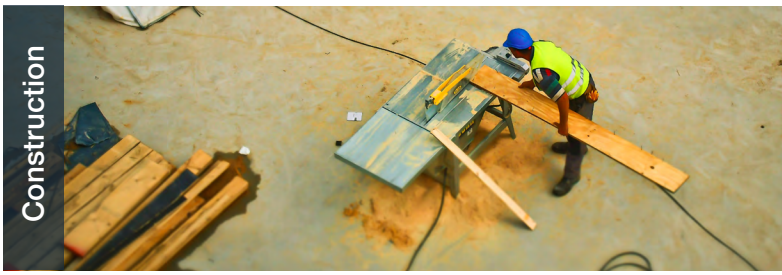
- 6 mm – 25 mm ID available from stock in 30 m coils

Colours:

- Black with yellow stripe (6 mm – 10 mm)
- Yellow (12 mm – 25 mm)

Custom sizes and colours available on request subject to minimum order quantities

1. Phthalate free PVC
2. Polyester fiber reinforcement
3. Phthalate free nitrile PVC blend



Applications:

- Construction
- Workshop environments
- General industrial use
- Garage forecourt

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
GPA06	6 mm	14 mm	20 Bar	60 Bar	0.187 Kg	30 mm
GPA08	8 mm	16 mm	20 Bar	60 Bar	0.222 Kg	40 mm
GPA10	10 mm	18 mm	20 Bar	60 Bar	0.259 Kg	55 mm
GPA13	13 mm	22 mm	20 Bar	60 Bar	0.368 Kg	85 mm
GPA19	19 mm	29 mm	20 Bar	60 Bar	0.530 Kg	170 mm
GPA25	25 mm	37 mm	20 Bar	60 Bar	0.848 kg	260 mm

COMPRESSOR HOSE ASSEMBLY
GPA Series

Copely

This professional compressor hose assembly, with heavy duty safety claw clamps, is the cost-effective, high-performance TPE alternative to rubber hosing. While looking and feeling like rubber, it has many advantages including a longer lifespan. Manufactured from a hard-wearing PVC Nitrile blend, this ergonomic super-flexible product is a real winner in many industrial environments.

Key Features:

- Professional 15 m air compressor assembly including safety claw clamps.
- PVC Nitrile blend gives good abrasion and ageing resistance – superior to rubber.
- Clean, flexible and user-friendly.
- Reduced Plasticiser migration.
- Excellent resistance to UV / Ozone.
- Silicone and Cadmium free.
- Service Temperature – 15°C – + 60°C.
- 3:1 safety factor.
- **Every hose is fully tested to 20 Bar during manufacture.**

Sizes:

- Available in 15 m coils

Colours:

- Yellow

Custom sizes and colours available on request subject to minimum order quantities

1. **Double lock quick release coupling (DLQR)**
2. **Safety clamp with nyloc nuts fitted for additional safety**
3. **High strength PVC reinforced hose**

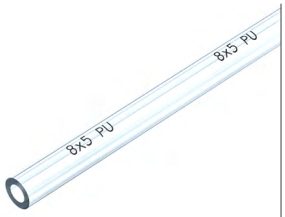
Applications:

- Compressed air tools
- Spray guns
- Road breakers
- General industrial – oil, grease solvents, air and water applications

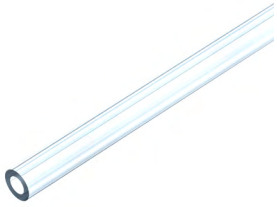
Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Minimum Burst Pressure	Bend Radius (Approx.)
GPA19	19 mm	29 mm	10 mm	20 Bar	60 Bar	170 mm

Pneumatic

Copely is skilled in the manufacture of a wide range of standard nylon tubes as well as preformed coils for air brakes and air tools, and we offer a choice of material options from super flexible to semi-rigid. Pneumatic applications require precise working pressure and burst pressure information in order to ensure reliable performance and lifespan, and with our extensive product data you are sure to find the most suitable tube for your requirements. We also own metric and imperial tooling, meaning that we can produce tube for machinery regardless of what specifications the OEM operate to.



Pneumatic Polyurethane Tube
CPU Series
Suitable for a wide range of applications, such as pneumatic control systems.
Page 32



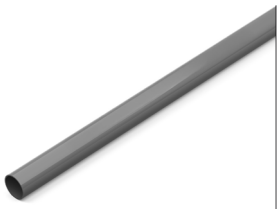
Pneumatic Polyurethane Tube
PPU Series
Industrial nylon tubing in the established Eurolon range.
Page 33

SuperFlex Nylon
NMSF Series
SuperFlex, developed for compact pneumatic control systems.
Page 34

Metric Nylon Tubing
NMF Series – Standard Duty
Industrial nylon tubing in the established Eurolon range.
Page 35

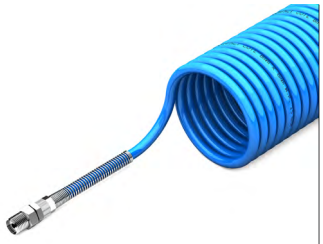
Metric Nylon Tubing
NLF Series- Lighter Duty
Industrial nylon tubing in the established Eurolon range.
Page 36

Nylon Tubing Flexible – Imperial Sizes
NMF Imperial
Industrial nylon tubing in the established Eurolon range.
Page 37



Semi-Rigid Imperial Nylon Tube
NRM / INR Series
Semi-Rigid Nylon Tube offers a robust and versatile solution for demanding industrial and commercial applications.
Page 38

WeldSpatter Tube
WST Series
The ideal solution when tubing may be exposed to welding spatter and sparks.
Page 39

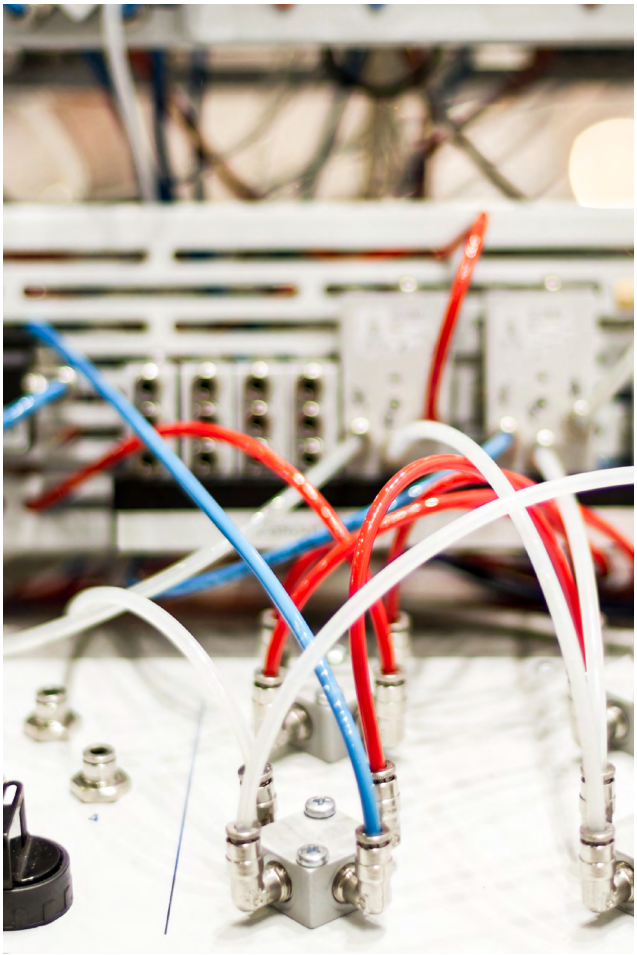


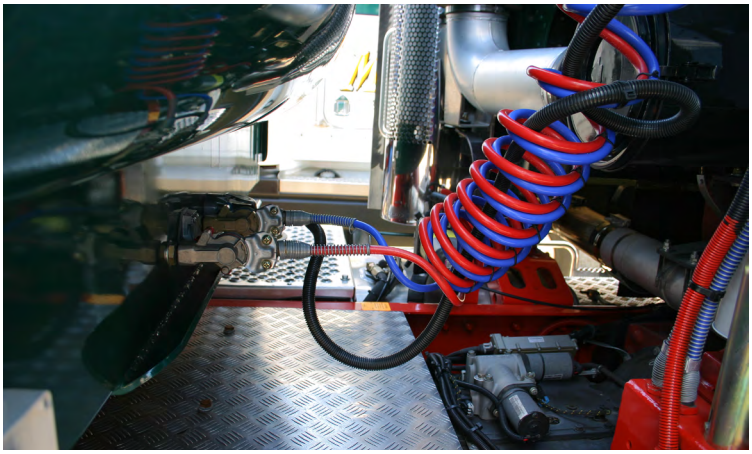
Compact Preformed Airline Coils
EC Series
Type 12 Nylon airline coil.
Page 40

Polyurethane Compact Coils
CPC Series
Designed to overcome the limitations of traditional nylon preformed coil.
Page 41

Nylon & Pneumatic Tubes

Types of nylon and other pneumatic tubes we can extrude





- **Rigid PA12** – this is an un-plasticised version of our standard NMF nylon which has much higher burst strength and greater rigidity.
- **PA6 (F50)** – mainly used to produce carpet creel tubing due to its high wear resistance and anti-static properties.
- **PA6** – specialised grades are used to produce a whole range for fire detection tubing for highly technical applications.
- **PA6.10** – Partially made from completely renewable sources, PA6.10 offers a material that exhibits a lot of the properties of PA12, particularly low moisture absorption. The PA6.10 used by Copely is certified to ISO7628 for use as air tubing on commercial vehicles.
- **PA11** – this has exactly the same properties as PA12 but is made from a fully renewable Bio sourced material. Grades of PA11 are available which are approved for food contact use to FDA and EU10/2011 standards.
- **PU** – This is a highly versatile, durable and lightweight tube, offering similar performance to nylon with greater flexibility and resistance to kinking.
- **Tube forming** – We have full facilities to form nylon tubing along with other materials post extrusion. Please enquire if you have a particular project.

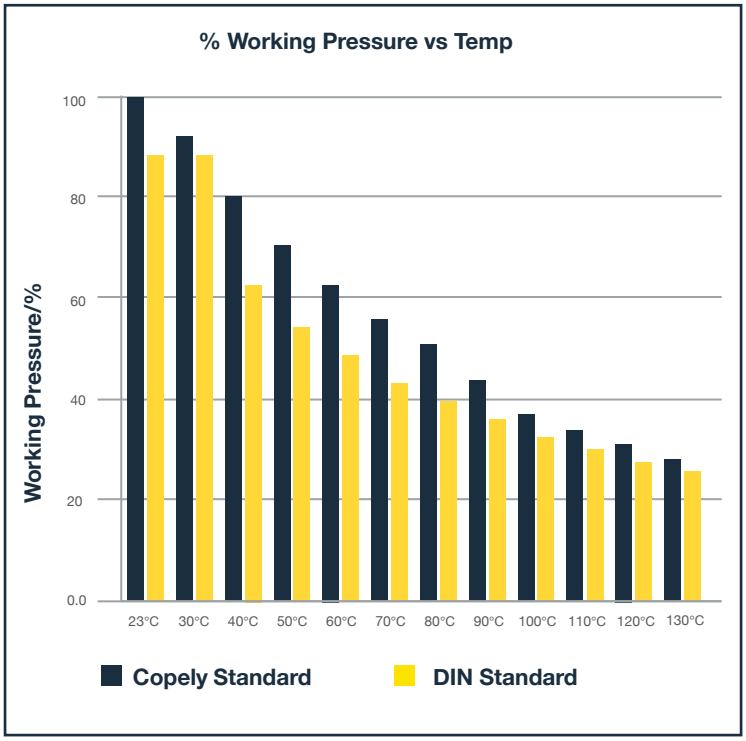
Burst Pressures and Working Temperatures

This graph provides a guide to the pressure capabilities of Copely flexible nylon tube, when working within a recommended working temperature range.

As the temperature falls, the tube will become less flexible, the brittle point temperature being – 70°C.

Extreme caution should be taken if the temperature is exceeded. Any increase in temperature above 20°C will result in a decrease in the short term burst pressure.

Short term burst pressure is defined as the value recorded when testing a tube to burst pressure, as described in BS EN ISO 1402.



Safety Factors

- When selecting a hose it is vital that customers ensure an adequate safety factor for their application is taken into account.
- Below is an extract from BS EN ISO 7751 which will assist customers in providing a proven level of safety.
- Discretion is advised when determining a safety factor for your chosen application.

TYPE OF SERVICE (FOR GUIDANCE ONLY)	**RATIO OF MIN BP TO DESIGN WP**
Water hose, max WP 10 bar	3.0
Hose for all other liquids, solid materials suspended in liquids or air and water hose, WP over 10 bar	4.0
Hose for compressed air and other gases	4.0
Hose for liquid media that change into a gaseous state when subjected to a reduction in pressure, i.e. released to atmosphere	5.0
Steam hose	10.0
Jetting hose	2.5

PNEUMATIC POLYURETHANE TUBE

CPU Series

Copely

Suitable for a wide range of applications, such as pneumatic control systems, demanding a flexible and cut-resistant tube with maximum kink-resistance and minimum kink memory.

Key Features:

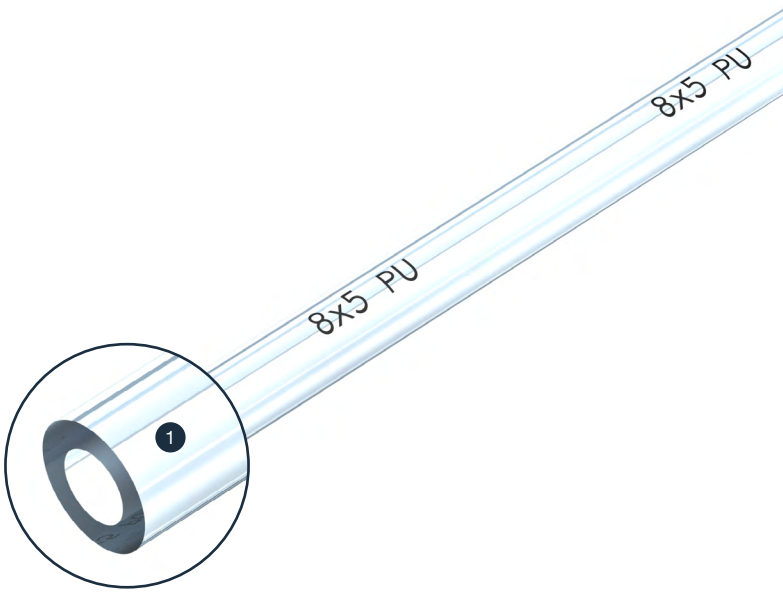
- Low temperature flexibility.
- Exceptional abrasion resistance.
- Maximum kink-resistance; minimum kink memory.
- Resistant to a wide range of chemicals.
- Compliant with FDA regulations.
- Easy to fit in confined spaces.
- Meets the standards of the push fit type couplings.
- Silicone free.
- 95/98 Shore A hardness.
- Service Temperature -40°C – +80°C.
- 4:1 safety factor.
- RoHS 3 compliant.

Sizes:

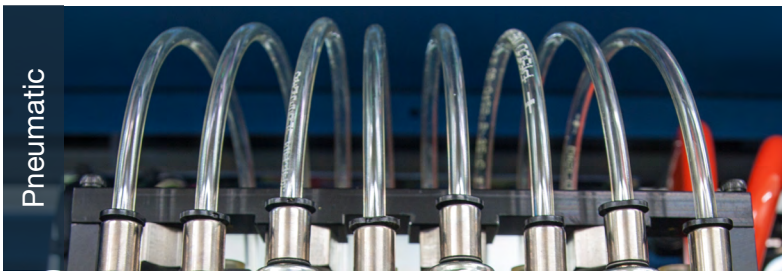
- Available from stock in 30 m coils

Colours:

- Blue, black, red, clear, yellow and green



1. **Ester based polyurethane**



Applications:

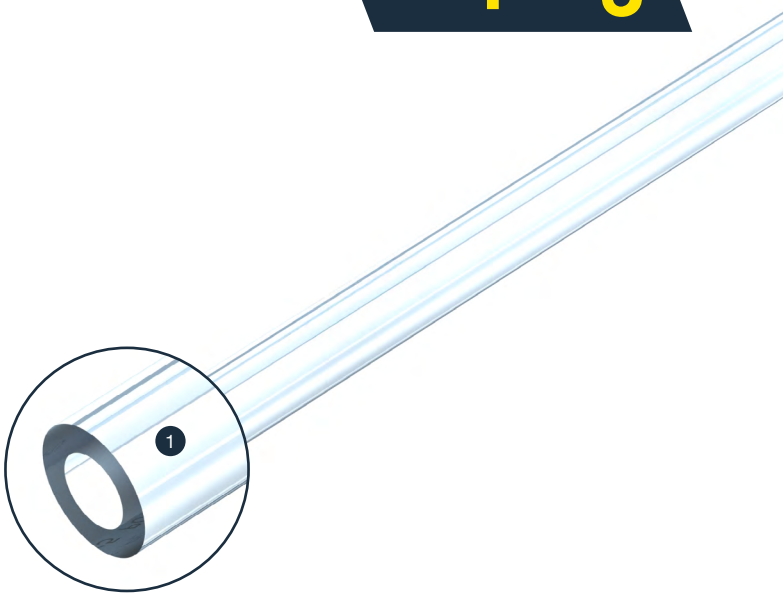
- Pneumatic control systems/tools
- Fuel and lubrication lines
- Chemical transfer
- Food/liquid substances

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
CPU04	2.5 mm	4 mm	11 Bar	40 Bar	0.010 Kg	25 mm
CPU06	4 mm	6 mm	10 Bar	40 Bar	0.023 Kg	40 mm
CPU08	5 mm	8 mm	10 Bar	40 Bar	0.040 Kg	50 mm
CPU10	7.5 mm	10 mm	7.5 Bar	30 Bar	0.044 kg	75 mm
CPU12	8 mm	12 mm	6.5 Bar	26 Bar	0.069 kg	90 mm

PNEUMATIC POLYURETHANE TUBE

PPU Series

Copely



A high strength and flexible polyurethane tube designed for use in pneumatic systems. Extremely flexible, even at low temperatures and resistant to cuts, abrasion, kinks and flattening. This tube is designed to work with all pneumatic push in fittings.

Key Features:

- Manufactured from polyether polyurethane for use in a wide range of applications.
- Glass clear for excellent visibility.
- Translucent colours also available for identification of pneumatic lines.
- Wide temperature range: -50°C – +80°C with occasional use up to 100°C.
- Suitable for use with fuels, oils, greases, solvents, chemicals and gasses.
- Resistant to cuts and external abrasion.
- Excellent resistance to kinking and flattening.
- DEHP, Phthalate free and RoHS3 compliant.
- Compatible with all common push in couplings.

Sizes:

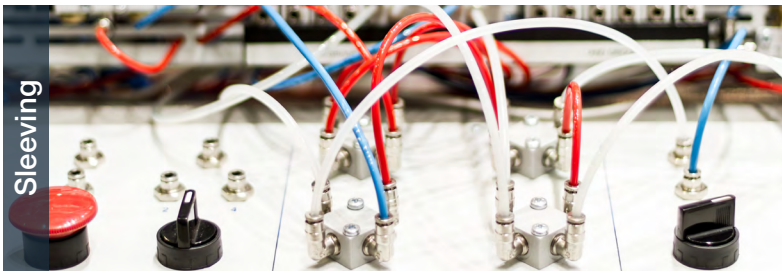
- Available from stock in 30m coils

Colours:

- Clear. translucent blue and translucent black

Custom sizes and colours available on request subject to minimum order quantities

1. **Ether based polyurethane**



Applications:

- Pneumatic control systems.
- Industrial robotics
- Pneumatic valves
- Fuel and lubrication lines
- Control instrumentation
- Chemical transfer
- Conveyance of some liquid, dry powders, gases and granules

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
PPU4/2.5	2.5 mm	4 mm	20 Bar	80 Bar	0.266 Kg	13 mm
PPU6/4	4 mm	6 mm	17 Bar	68 Bar	0.546 Kg	22 mm
PPU8/5.5	5.5 mm	8 mm	16 Bar	64 Bar	0.922 Kg	31 mm
PPU8/6	6 mm	8 mm	12 Bar	48 Bar	0.765 Kg	38 mm
PPU10/7	7 mm	10 mm	15 Bar	60 Bar	1.393 Kg	40 mm
PPU12/8	8 mm	12 mm	17 Bar	68 Bar	2.186 Kg	43 mm

SUPERFLEX NYLON
NMSF Series

Copely

SuperFlex, developed for compact pneumatic control systems, provides superior flexibility, negating the need for elbow fittings. This pliable nylon tubing, with an extremely high impact resistance and quality finish, simply pushes into a coupling for ease of use and is used worldwide by the pneumatics industry.

1. Modified Super Flexible PA12

Key Features:

- Superior flexibility.
- Resistant to a wide range of chemicals.
- Silicone-free.
- RoHS 3 compliant.
- High impact resistance.
- Service temperature -40°C – +80°C.
- Occasional use up to 120°C.
- Manufactured in accordance with BS 5409.

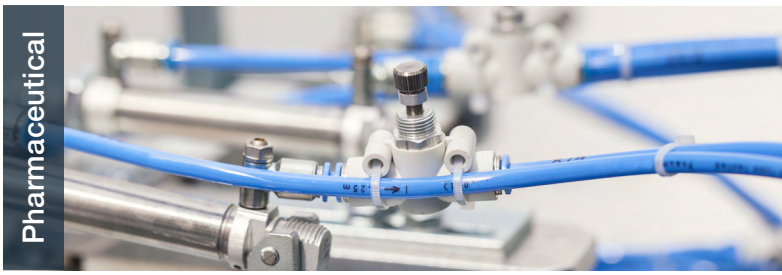
Sizes:

- 4 mm – 12 mm OD available from stock in 30 m coils

Colours:

- Natural, Black, Blue, Red, Yellow & Green

Custom sizes and colours available on request subject to minimum order quantities



Applications:

- Pharmaceutical / scientific
- Caravan industry
- Pneumatic tools
- Transfer of food substances and liquids

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
NMSF04	2.5 mm	4 mm	15.5 Bar	62 Bar	0.009 Kg	10 mm
NMSF06	4 mm	6 mm	14 Bar	57 Bar	0.017 Kg	16 mm
NMSF08	5.5 mm	8 mm	13.75 Bar	55 Bar	0.027 Kg	23 mm
NMSF10	7 mm	10 mm	13.25 Bar	53 Bar	0.042 Kg	38 mm
NMSF12	9 mm	12 mm	12.75 Bar	51 Bar	0.060 Kg	43 mm

METRIC NYLON TUBING

NMF Series- Standard Duty

Copely

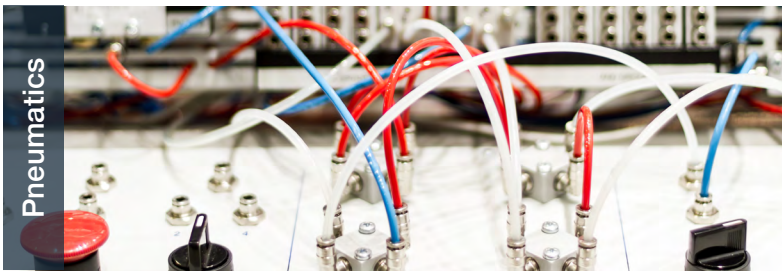
Industrial tubing made from flexible nylon. Ideally suited for pneumatic/hydraulic applications such as air brakes, as well as fuel and lube applications.

Also ideal for low toxic or high temperature environments such as breweries or applications involving food contact.

Key Features:

- Flexible, lightweight and durable over a wide temperature range.
- Smooth inner for improved flow.
- Manufactured from heat and light stabilised Nylon to precise tolerances.
- Available on dispensing drums.
- Boxed available for minimum order quantities.
- Resistant to a wide range of chemicals.
- High resistance to moisture absorption.
- Manufactured in accordance with BS 5409, DIN 73378, DIN 74324 and ISO 7628.
- Silicone-free.
- Excellent abrasion resistance.
- 4:1 safety factor.
- RoHS 3 compliant.

1. **Impact modified PA12**



Sizes:

- 4 mm – 28 mm OD available from stock in 30 m coils & 100 m coils.

Applications:

- Pneumatics
- Air brake, fuel and lube applications
- Production lines (industrial and automotive)

Colours:

- Natural, Black, Red, Blue, Green & Yellow

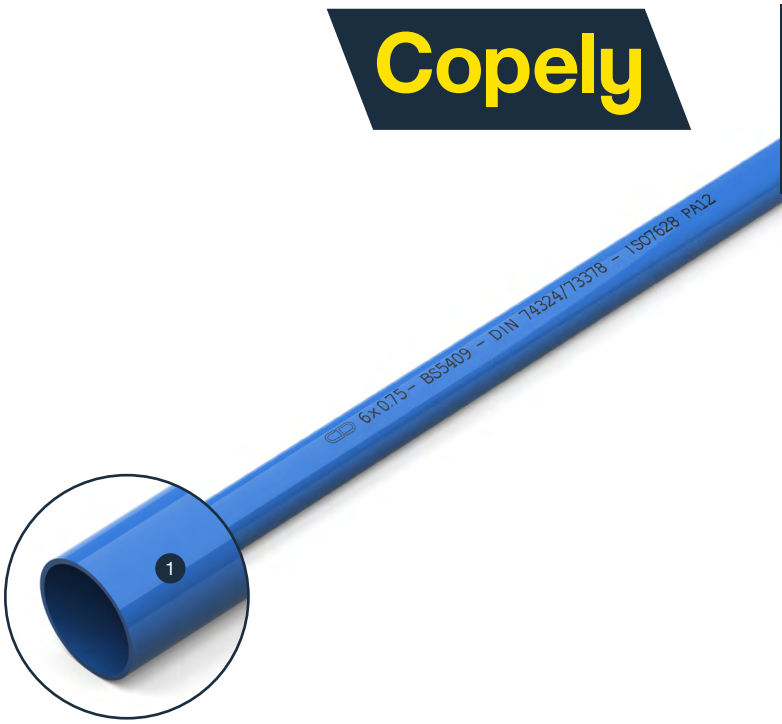
Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
NMF04	2.5 mm	4 mm	26 Bar	110 Bar	0.008 kg	22 mm
NMF05	3.3 mm	5 mm	24 Bar	120 Bar	0.012 kg	26 mm
NMF06	4 mm	6 mm	24 Bar	96 Bar	0.017 Kg	35 mm
NMF08	5.5 mm	8 mm	22 Bar	88 Bar	0.029 Kg	45 mm
NMF10	7 mm	10 mm	22 Bar	88 Bar	0.039 Kg	60 mm
NMF12	9 mm	12 mm	17 Bar	68 Bar	0.051 Kg	48 mm
NMF14	11 mm	14 mm	20 Bar	55 Bar	0.058 Kg	80 mm
NMF15	12 mm	15 mm	20 Bar	50 Bar	0.064 kg	85 mm
NMF16	12 mm	16 mm	18 Bar	72 Bar	0.100 kg	90 mm
NMF18	14 mm	18 mm	16 Bar	64 Bar	0.117 Kg	115 mm
NMF22	17 mm	22 mm	16 Bar	64 Bar	0.167 Kg	125 mm
NMF28	22 mm	28 mm	15 Bar	60 Bar	0.256 Kg	160 mm

METRIC NYLON TUBING

NLF Series – Light Duty

Copely



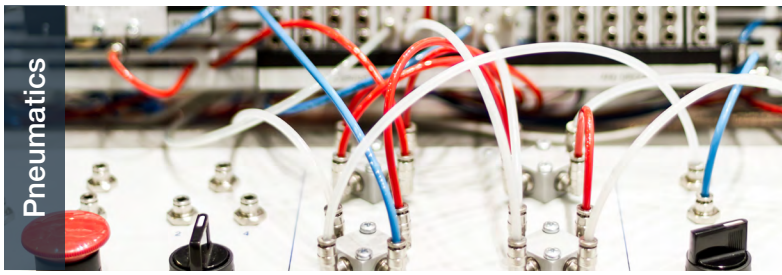
1. Impact modified PA12

Industrial tubing made from flexible nylon. Ideally suited for pneumatic/hydraulic applications such as air brakes, as well as fuel and lube applications.

Also ideal for low toxic or high temperature environments such as breweries or applications involving food contact.

Key Features:

- Flexible, lightweight and durable over a wide temperature range.
- Smooth inner for improved flow.
- Manufactured from heat and light stabilised Nylon to precise tolerances.
- Available on dispensing drums.
- Boxed available for minimum order quantities.
- Resistant to a wide range of chemicals.
- High resistance to moisture absorption.
- Manufactured in accordance with BS 5409, DIN 73378, DIN 74324 and ISO 7628.
- Silicone-free.
- Excellent abrasion resistance.
- 4:1 safety factor.
- RoHS 3 compliant.



Applications:

- Pneumatics
- Air brake, fuel and lube applications
- Production lines (industrial and automotive)

Sizes:

- 6 mm – 12 mm OD available from stock in 30 m coils

Colours:

- Natural, Black, Red, Blue, Green & Yellow

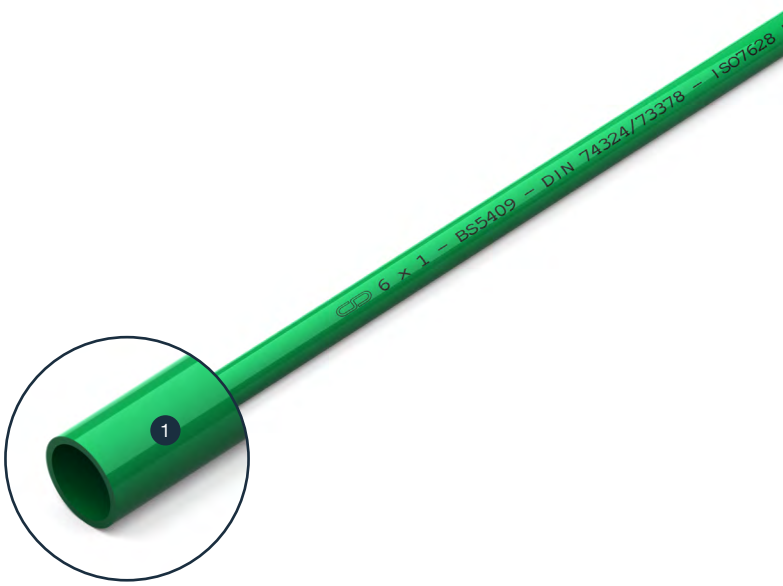
Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
NLF06	4.5 mm	6 mm	20 Bar	80 Bar	0.014 Kg	18 mm
NLF08	6 mm	8 mm	17 Bar	70 Bar	0.023 Kg	26 mm
NLF10	7.5 mm	10 mm	17 Bar	70 Bar	0.035 Kg	50 mm
NLF12	9.5 mm	12 mm	14 Bar	56 Bar	0.047 Kg	65 mm
NLF12	10 mm	12 mm	12 Bar	48 Bar	0.042 Kg	72 mm

NYLON TUBING
FLEXIBLE – IMPERIAL SIZES
INF Series

Copely

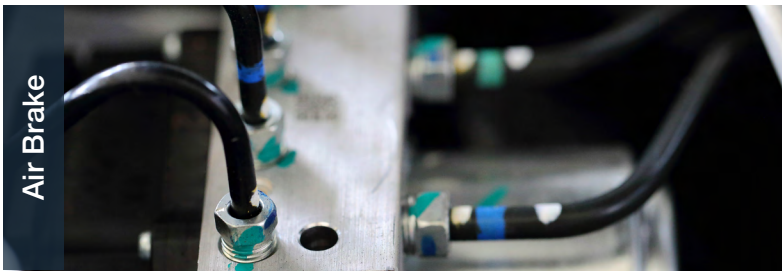
Imperial sized nylon tubing for use as replacement parts in systems where imperial size tube is used or new parts for equipment manufactured using imperial sized fittings.



1. **Impact modified PA12**

Key Features:

- Flexible, lightweight and durable over a wide temperature range.
- Smooth inner for improved flow.
- Manufactured from heat and light stabilised Nylon to precise tolerances.
- Available on dispensing drums to special order.
- Resistant to a wide range of chemicals.
- High resistance to moisture absorption.
- Silicone-free.
- Excellent abrasion resistance.
- 4:1 safety factor.
- RoHS 3 compliant.



Sizes:

- 1/8” OD – 1” OD available from stock in 30m coils

Colours:

- Natural and Black

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Pneumatics
- Fuel and oils
- Lubrications lines
- Compressed air
- Refrigeration
- Coolant and hydraulic lines
- Chemical transfer
- Automotive
- Laboratories

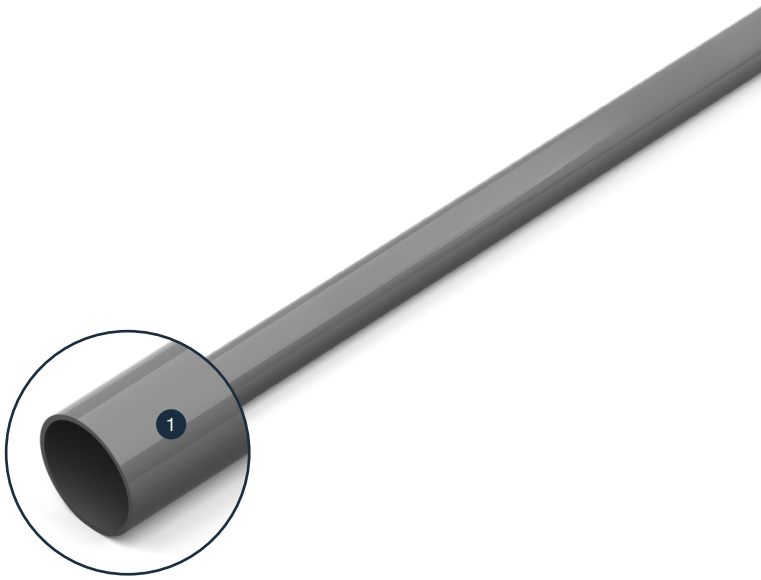
Product Ref	External Diameter		Internal Diameter		Maximum Working Pressure		Minimum Burst Pressure		Weight per Metre	Bend Radius
	Imperial Inch	Metric mm	Imperial Inch	Metric mm	PSI	Bar	PSI	Bar	Kg	Metric mm
INF04	1/8"	3.18	0.075"	1.91	635	44	2538	175	0.006	6
INF06	3/16"	4.76	0.117"	2.97	417	29	1668	115	0.011	13
INF08	1/4"	6.35	0.170"	4.32	326	23	1305	90	0.017	20
INF10	5/16"	7.94	0.212"	5.38	326	23	1305	90	0.028	24
INF12	3/8"	9.53	0.250"	6.35	352	24	1407	97	0.041	29
INF16	1/2"	12.73	0.375"	9.53	250	17	1001	69	0.057	51
INF20	5/8"	15.80	0.5"	12.70	196	14	783	54	0.073	63
INF24	3/4"	19.05	0.594"	15.09	196	14	783	54	0.109	102
INF32	1"	25.40	0.812"	20.62	181	13	725	50	0.177	178

SEMI-RIGID IMPERIAL NYLON TUBE

NRM Series

Copely

Semi-rigid nylon tube has excellent mechanical strength and high burst pressure ratings while being both flexible and lightweight. The tube can perform over a wide range of temperatures and also with a large range of chemicals.



1. Semi Rigid PA12

Key Features:

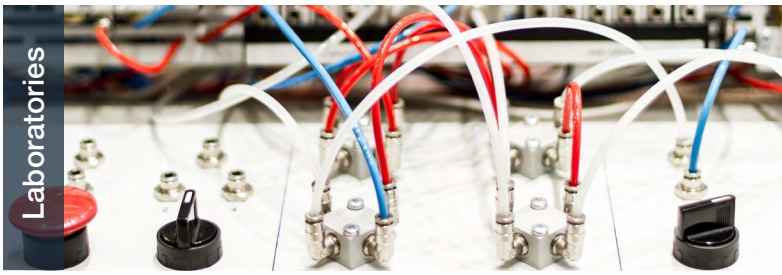
- Manufactured from polyamide 12 (PA12)
- Lightweight and flexible
- Good range of chemical resistance, particularly with petroleum, greases, oils and solvents.
- Wide temperature range: -35°C – +110°C with occasional use up to 140°C.
- Excellent mechanical strength and high burst pressures.
- DEHP, Phthalate free and RoHS3 compliant.
- Compatible with all common push in couplings.
- Capable of working at higher temperatures and pressures than flexible nylon tube.
- Rated to DIN 73378 / DIN 74324 – PA12-HL

Sizes:

- Not a stock item, made to order to customers requirements only
- Custom sizes and colours available on request subject to minimum order quantities.

Colours:

Custom sizes and colours available on request subject to minimum order quantities



Applications:

- Pneumatics
- Hydraulics
- Fuel and oils
- Lubrications lines
- Compressed air
- Refrigeration
- Chemical transfer
- Automotive
- Laboratories

Product Ref	External Diameter	Internal Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
	mm	mm	Bar	Bar	Kg	mm
NMR04	4	2.5	60	180	0.006	25
NMR06	6	4	53	160	0.011	35
NMR08	8	6	32	95	0.017	55
NMR10	10	8	90	90	0.028	90
NMR12	12	10	23	70	0.041	90

WELD SPATTER TUBE
WST Series

Copely

Designed for use in welding applications, where tubing is likely to come in to contact with weld spatter and sparks. Able to carry air, gases, some liquids, dry powders and granules.

1. Polyurethane tubing
2. Flame retardant PVC

Key Features:

- Withstands weld spatter and sparks.
- Made from pneumatic polyurethane tubing covered in 1 mm of flame retardant PVC.
- Inner tube is manufactured from 100% ester based polyurethane, with no Plasticisers.
- Outer tube is flame retardant and self-extinguishing – avoiding the need for expensive metallic braided pipes.
- Extremely durable.
- Resistant to most solvents, alkalis, oils, greases, petroleum products, fungi, moulds and dilute acids (mineral and organic).
- Outer tube rating: Meets UL94 V0 self extinguishing requirements.

Sizes:

- 4mm – 8mm ID available from stock in 30m coils

Colours:

- Light Blue, Yellow, White & Grey

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Welding
- Industrial robotics
- Pneumatic valves, fuel and lubrication lines
- Control instrumentation
- Pneumatic lines, chemical transfer tubing, metering pumps

Product Ref	Internal Diameter	External Diameter	Outer Jacket Thickness (mm)	Minimum Burst Pressure 4:1	Maximum Working Pressure @20 °C	Bend Radius
WST06	4 mm	6 mm	1.0	40 Bar	10 Bar	40 mm
WST08	5 mm	8 mm	1.0	40 Bar	10 Bar	50 mm
WST10	6.5 mm	10 mm	1.0	30 Bar	7.5 Bar	75 mm
WST12	8 mm	12 mm	1.0	26 Bar	6.5 Bar	90 mm

COMPACT PREFORMED AIRLINE COILS
EC Series

Copely

An off-the-shelf solution satisfying all market sectors requiring a lightweight Type 12 Nylon airline coil with high resistance to oil, organic and non-organic media.

1. BSP Male Swivel With Spring Guards
2. Impact modified PA12

Key Features:

- Excellent flexibility / retention.
- Light weight.
- Superior flow characteristics.
- BSPT Male Swivel fittings (compression) complete with anti-kink spring.
- Suitable for horizontal and vertical applications.
- Temperature range -40°C – +80°C.
- Maximum Working Pressure = 15 bar.
- RoHS 3 compliant.

Sizes:

- 8 mm, 10 mm and 12 mm OD in working lengths of 2.5 m, 5 m, 10 m and 15 m
- Fittings 1/4 BSPT and 3/8 BSPT

Colours:

- Red
- Blue

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Industrial air tools
- Production line assembly

Product Ref	Tube Size	Working Length (m)	Number of turns	Tail Lengths	Coil Diameter	Fittings
EC08	8 x 6 mm	2.5 m	13	127 / 127 mm	76 mm	1/4” BSP Male Swivel With Spring Guards
		5 m	27			
		10 m	55			
		15 m	86			
EC10	10 x 8 mm	2.5 m	13	127 / 127 mm	76 mm	1/4” BSP Male Swivel With Spring Guards
		5 m	56			
		10 m	53			
EC12	12 x 9 mm	2.5 m	11	127 / 127 mm	90 mm	3/8” BSP Male Swivel With Spring Guards
		5 m	23			
		10 m	46			

POLYURETHANE COMPACT COILS
CPC Series

Copely

Designed to overcome the limitations of traditional nylon preformed coil, Polyurethane Compact Coils offer excellent resistance to abrasion, oils and kinking, as well as improved flexibility.

Key Features:

- Preformed with press in swivel couplings complete with springs.
- Excellent resistance to abrasion.
- Very good kink resistant characteristics.
- Complies with current FDA regulations.
- Useful for confined areas limited by space / bend radius.
- Service Temperature -40°C – + 80°C.
- Maximum Working Pressure: 10 bar.
- RoHS 3 compliant.

Sizes:

- 8 mm, 10 mm & 12 mm OD available in 2 m – 8 m working lengths
- 1/4" and 3/8" BSPT compression fitting with swivel couplings complete with spring guards

Colours:

- Red and blue

Custom sizes and colours available on request subject to minimum order quantities

1. Male swivel couplings with spring guards
2. Ester based polyurethane

Applications:

- Industrial air tools
- Instrumentation
- Robotics
- Food/liquid substances

Product Ref	Tube Size	Working Length (m)	Number of turns	Tail Lengths	Coil Diameter	Fittings
CPC08	8 x 5 mm	2 m	23	500 / 100 mm	25 mm	1/4" BSP Male Swivel With Spring Guards
		4 m	52			
		6 m	81			
		8 m	106			
CPC10	10 x 6.5 mm	2 m	12.5	500 / 100 mm	51 mm	1/4" BSP Male Swivel With Spring Guards
		4 m	28			
		6 m	44			
		8 m	58			
CPC12	12 x 8 mm	2 m	8.5	500 / 100 mm	76 mm	3/8" BSP Male Swivel WIth Spring Guards
		4 m	19.5			
		6 m	30.5			
		8 m	48			

Specialist

Copely has developed a wide array of solutions over the years. This range of specialist hoses, tubes and accessories is a reflection of our technical ability. The newest additions include, and SpiralFlex, a flexible wrap designed to protect hoses placed inside. If you have a unique application and are looking for a development partner, then Copely is able to design and extrude brand new hose and tube solutions to exacting requirements.

TPV Breathing Air Hose
AirTECH Series
Premium hose for use in applications where no compromise is acceptable.
Page 43

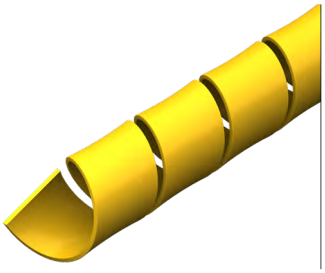
Paint & Fluid Hose
EPS Series
A higher pressure, multi-purpose ‘four layer’ chemical transfer hose.
Page 44

Aquavend Unreinforced
PH Series
A high quality, low pressure tube.
Page 45

Aquavend Reinforced PVC
PHR Series
Aquavend provides the ultimate in multi – layered pressure hose.
Page 46

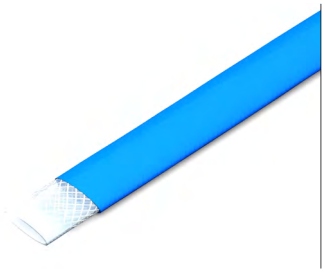
Vendhose
VH Series
LDPE lined, multi-layered hose.
Page 48

PTFE Tube
PTFE Series
PTFE thin walled tubing is used in a wide range of applications.
Page 49

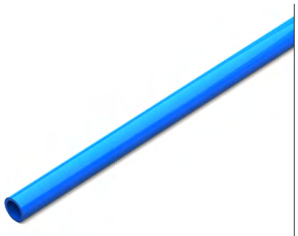


SpiralFlex HD
SPH Series
Designed to protect all types of hydraulic and pneumatic hoses.
Page 50

SpiralFlex Nylon
SWN Series
Designed to protect all types of hydraulic and pneumatic hoses.
Page 51



Marine Superflat
LX Series
A space saving, drain-easy universal reinforced leisure hose.
Page 52



Low density polyethylene
LDP Series
A low cost hosing solution for an extensive range of applications.
Page 53

Core and Tubes Series
Copely has the capability to manufacture a huge range of cores and tubes for numerous applications
Page 54

TPV BREATHING AIR HOSE
AirTECH Series

Copely

TPV Breathing hose is a unique, premium professional hose for use in applications where no compromise is acceptable.

TPV, or “ThermoPlastic Vulcanizate” hose, is virtually odourless, extremely flexible and, size for size, about 35% lighter than a standard rubber equivalent.

1. Anti-static black inner liner wall
2. TPV intermediate layer
3. Textile polyester reinforcement
4. TPV outer core

Key Features:

- Thick hose wall to protect against crushing and kinking.
- Virtually odourless.
- Lightweight and flexible for ease of use.
- Compatible with a wide range of chemicals.
- Manufactured to EN14593 & EN14594 for breathing air applications.
- DEHP & Phthalate Free.
- High flexibility at low temperatures
- Anti-static liner built into the hose to prevent static build up in high risk environments. Working pressure can be specified up to 20 bar.
- It accepts all standard fittings and can be clamped or swagged using standard equipment.
- Temperature range -30°C – +100°C (+120°C short term use)
- Fully recyclable materials.

Applications:

- Breathing air – superior flexibility without smell or taint
- All applications where enhanced flexibility and temperature performance are desirable
- Rubber hose replacement where rubber is undesirable due to smell of other properties.

Sizes:

- 6.3mm – 12.7mm ID available from stock in 25m coils

Colours:

Black with wide blue stripe, black inner

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
ATTPV06	6.3mm	13mm	3.35mm	20 Bar	80 Bar	0.109 Kg	36mm
ATTPV08	8mm	15mm	3.5mm	20 Bar	80 Bar	0.135 Kg	45mm
ATTPV10	10mm	17mm	3.5mm	20 Bar	80 Bar	0.159 Kg	58mm
ATTPV13	13mm	21mm	4mm	20 Bar	80 Bar	0.235 Kg	74mm

PAINT & FLUID HOSE
EPS Series

Copely

A higher pressure, multi-purpose 'four layer' chemical transfer hose suitable for paint, fluid, air and solvents. Light and flexible to use, it is also non-conductive.

1. Polyamide liner
2. PU intermediate layer
3. Polyester fibre reinforcement
4. PU outer layer

Key Features:

- Polyamide liner with a Polyurethane intermediate layer combined with polyester reinforcement and a Polyurethane outer cover for optimum flexibility.
- Fully flexible even at low temperatures – 40°C – +75°C.
- Compatible with most manufacturers' systems when used for spray paint purposes.
- Extremely abrasion resistant.
- Burst pressure 60-80 bar.
- Safety Factor 4:1 as advised by ISO7751:2016.
- RoHS 3 compliant.

Sizes:

- 6.3 mm & 9.52 mm ID available from stock in 30 m coils
- Can be supplied on drums

Colours:

- Emerald Green

Applications:

- Spray paint
- Fluids

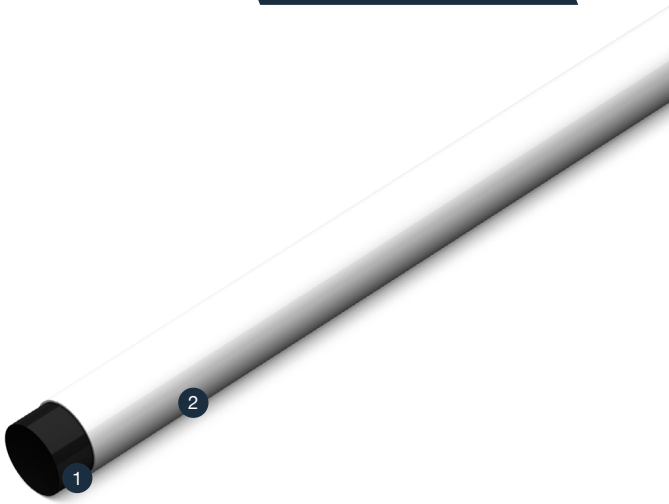
Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
ESP06	6.3 mm	11.5 m	20 Bar	80 Bar	0.103 kg	30 mm
ESP10	9.52 mm	15.5 mm	15 Bar	60 Bar	0.166 Kg	40 mm

AQUAVEND UNREINFORCED
PH Series

Copely

A high quality, low pressure tube finished in ultra-clean brilliant white designed primarily for the conveyance of mains cold water, incorporating innovative co-extrusion technology for flexibility and durability.



1. Thermoplastic Polyester Elastomer
2. Phthalate free PVC

Key Features:

- Aquavend will not support microbiological growth in accordance with BS 6920.
- WRAS approved.
- Cadmium and silicone-free.
- High quality PVC outer extruded with a brilliant white ‘clinical’ finish.
- TPE mirror smooth inner for improved flow.
- Odourless and specialist material prevents tainting the taste of water.
- Good flexibility and durability.
- Excellent resistance to abrasion.
- Compatible with latest push-in fittings.
- NB: Routing of this tubing should not run in close proximity to hot water pipes and other heat sources.
- Independently tested in accordance with BS 6920.
- 3:1 safety factor @ +20°C.
- RoHS 3 compliant.

Sizes:

- 6.4 mm & 9.5 mm OD available from stock in 30 m coils

Colours:

- Black Inner / White outer

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Drinking water
- Petrochemical
- Low pressure brine tubing
- Water transfer
- Chemical
- Hydrocarbon transfer

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
PH06	4.325 mm	6.375 mm	10 Bar	30 Bar	0.028 Kg	57 mm
PH08	6.35 mm	9.525 mm	10 Bar	30 Bar	0.054 Kg	86 mm

AQUAVEND REINFORCED PVC

PHR Series

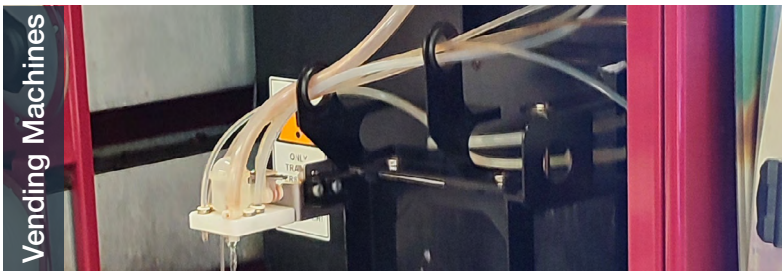
Copely

The market leader, Aquavend provides the ultimate in multi – layered pressure hose for the conveyance of mains water, incorporating the latest co-extrusion technology for superior performance. Black Hytrel® Liner. Food quality, non-phthalate, flexible PVC inner. 1000 denier high tenacity polyester yarn reinforcement. Food quality, non-phthalate, flexible PVC cover in white.

1. Thermoplastic Polyester Elastomer
2. Phthalate Free PVC
3. Polyester fiber reinforcement
4. Phthalate Free PVC

Key Features:

- Aquavend will not support microbiological growth.
- WRAS approved construction for conveyance of potable water.
- Cadmium and silicone-free.
- TPE mirror smooth inner for improved flow.
- Odourless and taint free specialist materials.
- Excellent resistance to abrasion.
- Good flexibility and durability.
- Good kink resistance across a wide temperature range.
- Independently tested in accordance with BS 6920.
- Laser printed for clarity and cleanliness.
- RoHS 3 compliant.
- Hose temperature range: -20°C – +55°C, occasional use up to +65°C, cold bend temperature -45°C
- The liner has very good chemical resistance and will safely convey many chemicals & chemical solutions in water
- Good resistance to oils



Sizes:

- 6.3 mm – 25 mm ID available from stock in 10 m & 30 m coils

Colours:

- Black liner / White outer

Applications:

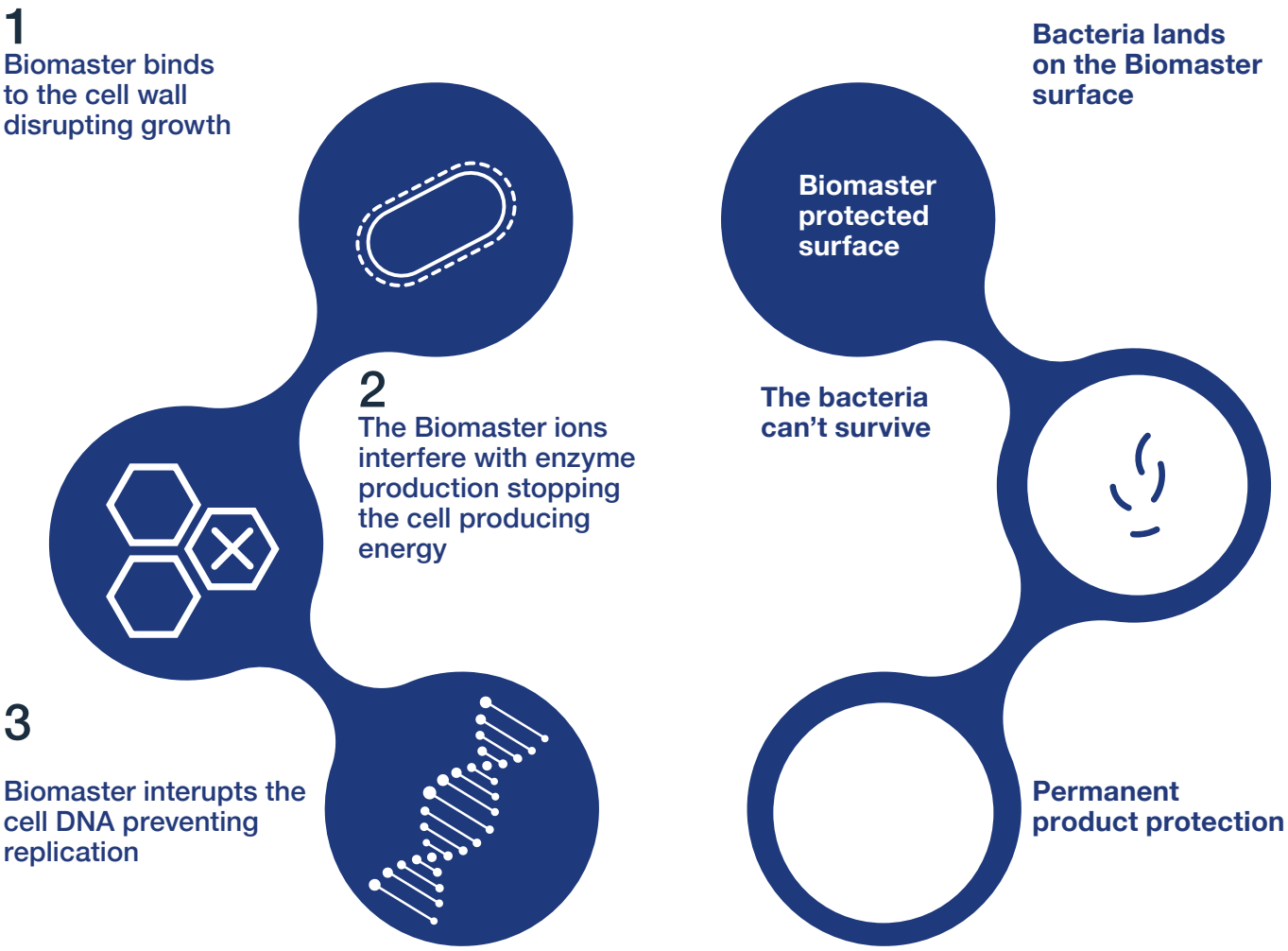
- Vending machines
- Drinking water
- Caravan industry
- Marine industry

Custom sizes and colours available on request subject to minimum order quantities

Can also be made with Biomaster Antimicrobial Protection to provide effective protection from the growth of unwanted bacteria

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
PHR06	6.3 mm	12 mm	27 Bar	80 Bar	0.110 kg	30 mm
PHR10	10 mm	16 mm	20 Bar	60 Bar	0.158 Kg	40 mm
PHR12	12.5 mm	19 mm	15 Bar	45 Bar	0.207 Kg	55 mm
PHR19	19 mm	26 mm	13 Bar	40 bar	0.300 Kg	130 mm
PHR25	25 mm	33 mm	10 Bar	30 Bar	0.500 Kg	210 mm

Biomaster Antimicrobial Protection



What is Biomaster Antimicrobial Protection?

Biomaster is an antimicrobial silver based additive added directly into the raw material. Biomaster protection is dispersed throughout the polymer, will not wash off and provides effective protection from the growth of unwanted bacteria.

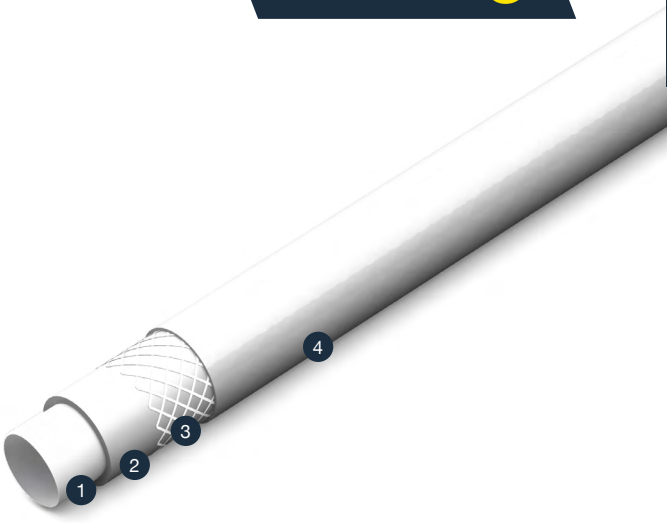
Benefits

- Does not use nano-silver technology
- Proven to inhibit the growth of bacteria by up to 99.99% Tested to ISO standards
- Safe to use in medical, food and water applications Effective for the lifetime of the product
- Proven to be effective against MRSA and VRE

VENDHOSE
VH Series

Copely

Vendhose is an LDPE lined, PVC free hose, designed to meet a wide range of market requirements, from potable water supply to chemical transfer. Vendhose has WRAS approval for hot (85°C) and cold water supply with either a white or grey outer cover. The LDPE liner ensures a wide range of applications can be accommodated within the chemical transfer, food manufacturing and process control sectors.



1. Low density polyethylene
2. Ethylene Vinyl Acetate
3. Polyester fibre reinforcement layer
4. Ethylene Vinyl Acetate

Key Features:

- WRAS approved for conveyance of portable water
- Tested in accordance with BS6920
- Suitable for use in the food manufacturing and medical sectors
- Hose temperature range: -20°C — +55°C, occasional use up to +65°C, cold bend temperature 45°C
- PVC free to eliminate any issues with plasticiser migration
- WRAS approved construction for conveyance of potable water
- Odourless and taint free

Sizes:

- 6.3 mm ID – 50 mm ID

Colours:

- Natural liner / white outer available from stock in long length drums which can be cut down to order

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Cold potable water connections to free standing machines
- Chemical & dosing lines
- Some liquid foodstuffs
- Water softeners and shower hoses
- Filtration systems
- Vending and beverage machines
- Medical and veterinary sectors
- Festivals and leisure industry
- Pure water applications

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
VH6.3/11.5	6.35 mm	11.5 mm	23 Bar	69 bar	0.070 Kg	22 mm
VH10/16	10 mm	16 mm	19 Bar	57 Bar	0.120 Kg	37 mm
VH12.5/18.5	12.5 mm	18.5 mm	16 Bar	49 Bar	0.135 Kg	49 mm
VH19/26	19 mm	26 mm	13 Bar	40 Bar	0.232 kg	84 mm
VH25/33	25 mm	33 mm	11 Bar	33 Bar	0.374 Kg	118 mm
VH32/42	32 mm	42 mm	10 Bar	30 Bar	0.545 Kg	75 mm
VH38/48	38 mm	48 mm	9 Bar	27 Bar	0.636 Kg	215 mm
VH50/62	50 mm	62 mm	5 Bar	15 Bar	0.989 Kg	315 mm

POLYTETRAFLUOROETHYLENE
PTFE Series

Copely

Extruded from chemically inert compound, PTFE thin walled tubing is used in a wide range of applications, Aerospace, Medical and Chemical.

Key Features:

- Excellent resistance to chemicals.
- Wide temperature range -60°C – +250°C.
- Low co-efficiency of friction.
- Suitable for food use.
- Excellent weathering properties.
- Excellent electrical insulation properties.

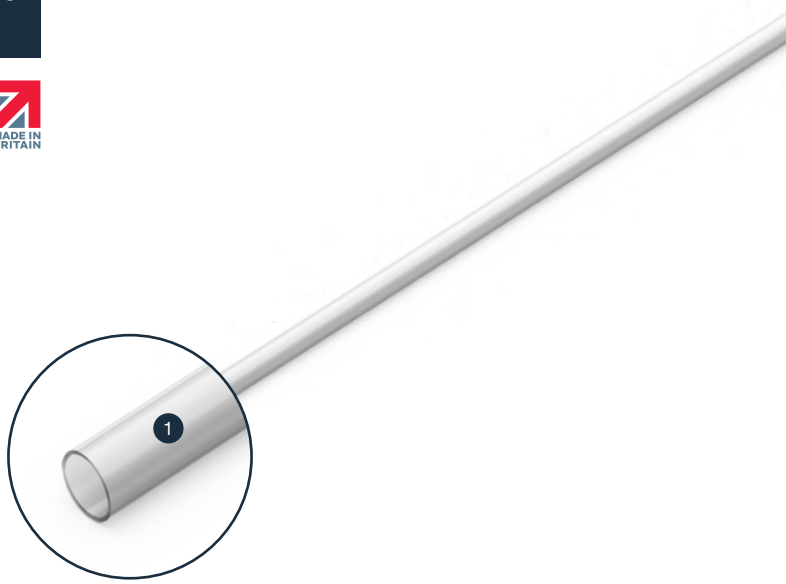
Sizes:

- 50 m.
- Other sizes and coil lengths available upon request

Colours:

- Natural

Custom sizes and colours available on request subject to minimum order quantities



1. Polytetrafluoroethylene

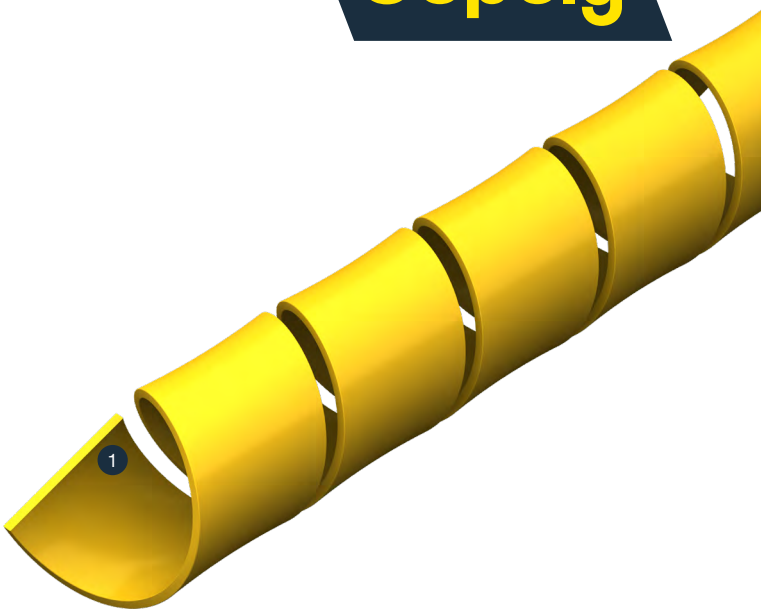
Applications:

- Transport of harsh chemicals
- Electrical Insulation
- Analytical Instruments

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Bend Radius
PTFE06	4 mm	6 mm	20 Bar	60 Bar	40 mm
PTFE08	6 mm	8 mm	13 Bar	40 Bar	65 mm
PTFE10	8 mm	10 mm	10 Bar	30 Bar	100 mm
PTFE12	10 mm	12 mm	8 Bar	24 Bar	145 mm

SPIRALFLEX HD
SW Series

Copely



Offers quick and simple protection to all types of hydraulic and pneumatic hoses. A cost-effective solution to shocks, abrasion and deterioration, helping reduce equipment downtime and maintenance costs.

Easily deployed to new or existing hydraulic and pneumatic assemblies, without the use of any tools.

Key Features:

- Simple to use with one or several hoses.
- Can withstand a temperature range -40°C to +130°C.
- Suitable for contact with hydraulic fluids including glycol and phosphate based products.

1. High Density Polyethylene (HDPE)

Sizes:

- Available in 20 m or 50 m coils

Colours:

- Black, Yellow and Red

Packaging:

- Supplied boxed for ease of handling.

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Hydraulic
- Pneumatic
- Paint spray
- Chemical or industrial hoses

Product Ref	Size Range	External Diameter	Wall Thickness	Weight per coil	Coil Length
SW12/50	10-14 mm	12 mm	1.25 mm	2.1 Kg	50 m
SW16/50	11.5-16 mm	16 mm	1.5 mm	2.9 Kg	50 m
SW20/50	14-20 mm	20 mm	1.8 mm	5.1 Kg	50 m
SW25/50	20-25 mm	25 mm	2.0 mm	6.4 Kg	50 m
SW32/50	25-32 mm	32 mm	2.4 mm	11.5 Kg	50 m
SW40/50	32-40 mm	40 mm	2.4 mm	13.4 Kg	50 m
SW50/20	38-50 mm	50 mm	3.0 mm	8.5 kg	20 m
SW63/20	50-63 mm	63 mm	3.5 mm	12.6 Kg	20 m
SW75/20	60-75 mm	75 mm	3.8 mm	16.3 Kg	20 m

SPIRALFLEX NYLON
SWN Series

Copely

Designed to protect all types of hydraulic and pneumatic hoses. This cost-effective cover protects against shocks, abrasion and deterioration, helping reduce your equipment downtime and keeping maintenance costs to a minimum.

SpiralFlex spiral wrapping is made from the highest quality PA12 (Nylon) can easily be added to existing or new hydraulic or pneumatic assemblies without the use of any tools. Comes in handy recyclable dispensing cartons for ease of use.

Key Features:

- Easy to use with singular hose, bundle of hoses, cables and multi-lines.
- Suitable for a wide temperature range -40°C – +138°C and for use with all hydraulic fluids including glycol and phosphate based products.

Sizes:

- Available in 25 m, 50 m and 100 m coils

Colours:

- Black

Packaging:

- Supplied boxed for ease of handling.

Custom sizes and colours available on request subject to minimum order quantities

1. Polyamide 12 (PA12)

Applications:

- Automotive
- Trailer manufacture
- Protection of electrical cables

Product Ref	Size Range	External Diameter	Internal Diameter	Wall Thickness	Weight per coil	Coil Length
SWN06	4-8 mm	8 mm	6 mm	1 mm	2.3 Kg	100 m
SWN10	8-12 mm	12 mm	10 mm	1 mm	2.1 Kg	50 m
SWN16	12-19 mm	19 mm	16 mm	1.5 mm	4.2 Kg	50 m
SWN20	19-23 mm	23 mm	20 mm	1.5 mm	5.2 Kg	50 m
SWN22	23-25 mm	25 mm	22 mm	1.5 mm	2.8 Kg	25 m
SWN26	25-29 mm	29 mm	6 mm	1.5 mm	3.3 Kg	25 m
SWN30	29-34 mm	34 mm	30 mm	2 mm	5.2 Kg	25 m

MARINE SUPERFLAT
LX Series

A space saving, easy-drain universal reinforced leisure hose which is a popular choice for the caravan and marine industry for the conveyance of water. Marine SuperFlat features quality Braidlok technology and is supplied with deluxe quick-release fittings and an easy to handle dispensing reel.

Key Features:

- Compact for convenient space-saving storage.
- Highly flexible.
- Lightweight and user-friendly.
- Easily drained.
- Compatible with most leading brand garden fittings.
- Silicone-free.
- Made from Cadmium-free materials.
- Supplied with Deluxe Quick-Release Fittings – Universal tap connector and adjustable spray nozzle.
- RoHS 3 compliant.

Sizes:

- 12.5 mm ID Available in 20 m coils (with cassette)
- Also available as hose only

Colours:

- Opaque Blue

Custom sizes and colours available on request subject to minimum order quantities

1. Modified high strength Phthalate free PVC
2. Polyester fiber reinforcement
3. Super flexible Phthalate free PVC

Applications:

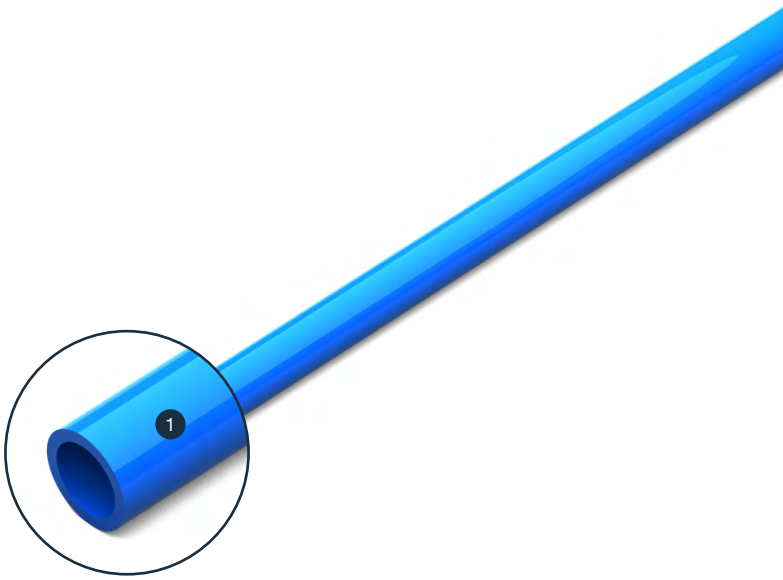
- Marina
- Caravans
- Boating

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure
LX12	12.5 mm	15.8 mm	8 Bar	24 Bar

LOW DENSITY POLYETHYLENE
LDP Series

Copely

A cost effective tubing solution for an extensive range of applications. Low Density Polyethylene flexible tubing is a popular choice for the brewery industry for the conveyance of beer and soft drinks, as well as water for domestic services.



1. Polyethylene

Key Features:

- High impact strength at low temperatures.
- Resistant to many liquids and chemicals.
- Low toxic.
- FDA approved.
- Silicone-free.
- Very flexible.
- Does not import taste or odour to content is.

Sizes:

- 6 mm, 8 mm, 10 mm & 12 mm OD available from stock in 30 m coils

Colours:

- Natural and Blue

Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Conveyance of beer and soft drinks.
- Domestic drinking water systems.
- Water treatment industry for chemical dosing.
- Scientific and pharmaceutical chemical transfer.
- Low pressure preumatic lines.

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per coil	Bend Radius
LDP06	4 mm	6 mm	17 Bar	51 Bar	0.44 Kg	27 mm
LDP08	5 mm	8 mm	17 Bar	51 Bar	0.61 Kg	48 mm
LDP10	7 mm	10 mm	16 Bar	48 Bar	0.79 Kg	60 mm

CORES AND TUBES
T Series

Copely

Copely has the capability to manufacture a huge range of cores and tubes for numerous applications. Made in the UK – you can trust that the cores and tubes have been made from higher quality materials, under better conditions, and with superior workmanship to those imported from Asia. We partner with our OEM customers to ensure our tubing offers the best performance in its intended application.

1. Made from PP, LDPE or HDPE

Key Features:

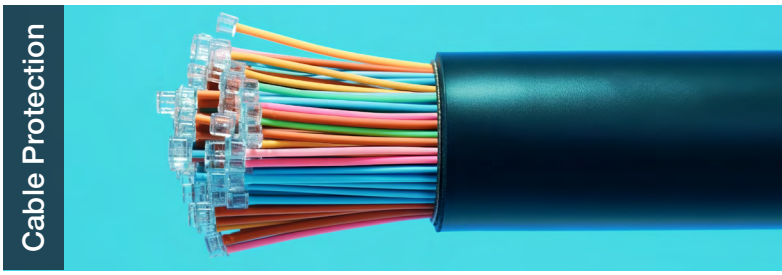
- Tubing can be supplied in cut lengths.
- Can be manufactured from a wide range of materials.
- Many standard tube sizes available – bespoke sizes available on request.
- In-house tooling and design facility to suit customer applications.
- Production facility audited by a leading medical supplier.
- Medical grade extruded profiles available.

Materials:

- PP (Polypropylene)
- LDPE (Low-density polyethylene)
- HDPE (High-density polyethylene)

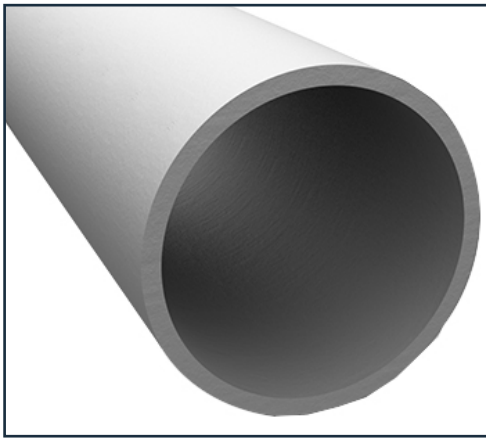
Available in recycled HDPE

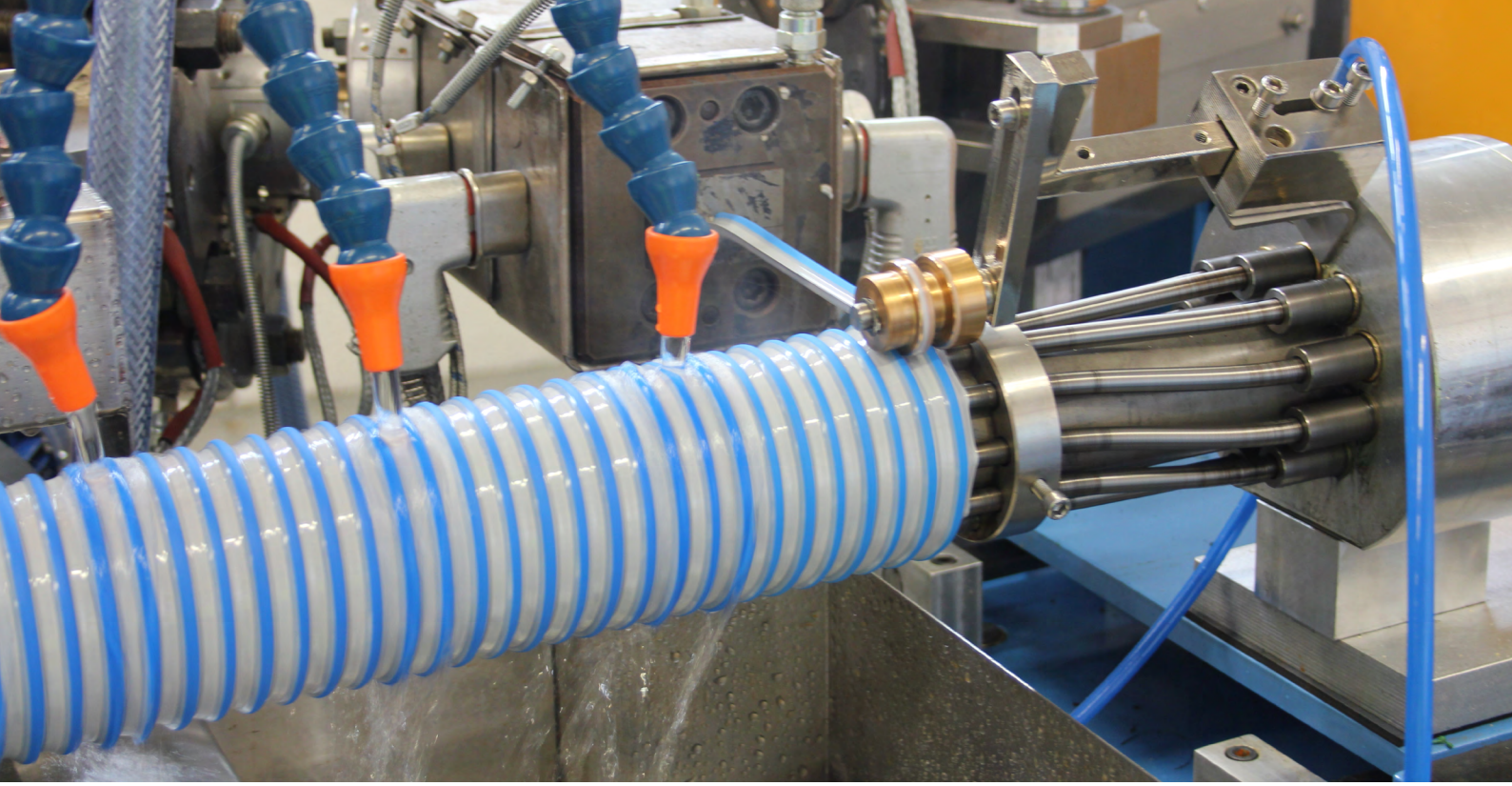
Custom sizes and colours available on request subject to minimum order quantities



Applications:

- **Packaging** – Rigid cores for winding tape and bandages.
- **Other** – Rigid plastic cores for winding a wide range of material options.
- **Caravan drainage**
- **High voltage cable protection**
- **Large scale food rollers**
- **General industrial**





Suction and Delivery

Suction hose is widely used in the UK for applications such as the movement of sewage, slurry, liquids, foodstuffs, particles and oils. Its construction incorporates a crush resistant PVC helix and a flexible PVC covering.

Our product has a smooth bore on all sizes to minimise any frictional losses. All of our materials are RoHS and fully REACH compliant, giving our customers total peace of mind.

Delivery Hose
DH Series
A lightweight delivery hose reinforced with a rigid internal white PVC helix.
Page 57

Heavy Duty Suction & Delivery Hose
HDS Series
A heavy duty PVC Suction and delivery hose.
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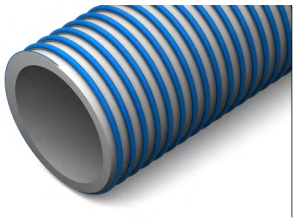


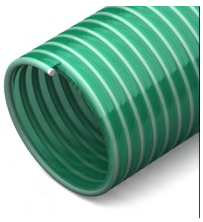
External Spiral Suction Hose
EXSP Series
Medium duty elastic quality suction hose.
Page 61

Sanitation Hose
MSH Series
A medium duty sanitation hose.
Page 63

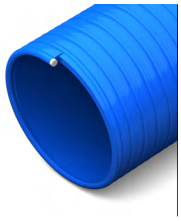
Wire Reinforced
WR Series
Wire reinforced PVC hose, manufactured from high quality Phthalate free transparent PVC.
Page 65

Suction & Discharge Hose Assemblies
A medium weight PVC hose, tough, flexible.
Page 67

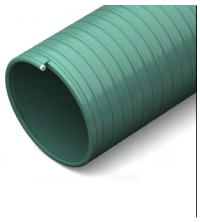
Industrial Layflat Hose Assemblies
A general purpose hose exceptional value for money.
Page 69



Super Elastic Delivery Hose
DHXE Series
A lightweight and super flexible PVC delivery hose.
Page 58

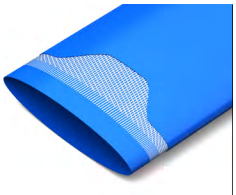


Oil Resistant Delivery Hose
MDOR Series
FOS is a medium weight PVC delivery hose.
Page 60



Medium Duty Suction & Delivery Hose
MDS Series
A medium weight PVC hose.
Page 62

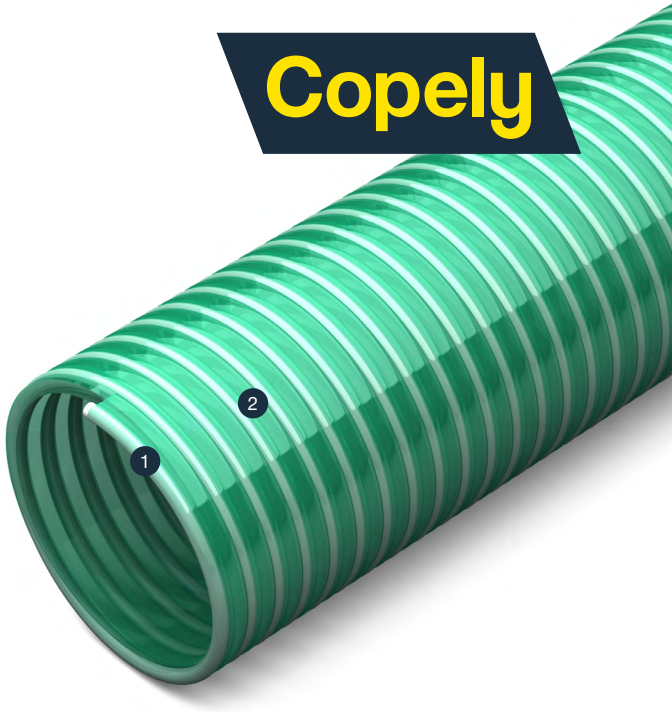
Food Grade Delivery Hose
FDH Series
A lightweight clear non-toxic PVC delivery hose.
Page 64



Industrial layflat Hose
LH & LHM Series
A high quality, medium pressure lay flat hose.
Page 66

External Spiral Suction Hose Assemblies
Medium duty elastic quality suction hose with an external crush resistant helix..
Page 68

DELIVERY HOSE
DH Series



A lightweight delivery hose reinforced with a rigid internal crush and kink resistant white PVC helix. It is tough, flexible and extremely durable. It has outstanding resistance to the effects of weather.

Key Features:

- Lightweight construction for easy handling.
- Optimum flow is maintained by the smooth bore.
- Tough, flexible and extremely durable.
- Retains flexibility, even in cold weather applications.
- Outstanding resistance to the effects of weather.
- Excellent chemical and abrasion resistance.
- RoHS 3 compliant.

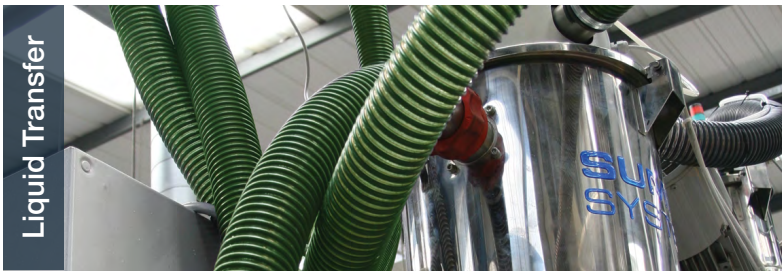
Sizes:

- Available from stock in 5 m, 10 m & 30 m coils

Colours:

- Standard – Transparent Green, White Helix

1. **Shock resistant rigid PVC reinforcement**
2. **Flexible Phthalate free PVC**



Custom sizes and colours available on request subject to minimum order quantities

Applications:

- Light pressure transfer of liquids, slurries and powders
- Agricultural
- Horticultural
- Marine
- Construction

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
DH07	19 mm	24.6 mm	2.6 mm	9.0 Bar	0.26 Kg	86 mm	7
DH10	25.4 mm	32 mm	3.3 mm	8.0 Bar	0.33 Kg	114 mm	7
DH12	32 mm	39.2 mm	3.6 mm	7.0 Bar	0.46 Kg	143 mm	7
DH15	38 mm	45.4 mm	3.7 mm	6.5 Bar	0.55 Kg	171 mm	7
DHM45	45 mm	52.8 mm	3.9 mm	6.5 Bar	0.67 Kg	200 mm	7
DH20	51.6 mm	59.8 mm	4.1 mm	6.0 Bar	0.81 Kg	230 mm	7
DH25	63.5 mm	71.9 mm	4.2 mm	5.0 Bar	1.04 kg	284 mm	7
DH30	76 mm	86.4 mm	5.2 mm	4.0 Bar	1.38 Kg	342 mm	7
DH40	102 mm	114.6 m	6.3 mm	4.0 Bar	2.16 Kg	459 mm	7

SUPER ELASTIC DELIVERY HOSE

DHXE Series

A lightweight and super flexible PVC delivery hose, reinforced with a rigid internal crush and kink resistant white PVC helix. It is tough, flexible and extremely durable even under cold working conditions and has an outstanding resistance to the effects of weather.

Key Features:

- Minimum frictional loss is achieved by the smooth bore.
- Tough, flexible and extremely durable even under cold working conditions.
- Outstanding resistance to the effects of weather.
- Excellent chemical and abrasion resistance.
- Smooth outer for ease of cleaning down.
- Delivery and light duty suction of water, slurries and powders.
- Within the agricultural industry the hose is specially used for conveying liquid fertilisers, dilute chemicals and insecticides.
- RoHS 3 compliant.

Sizes:

- Available from stock in 5 m, 10 m & 30 m coils

Colours:

- Standard: Transparent Green, White Helix

Custom sizes and colours available on request subject to minimum order quantities

1. **Shock resistant rigid PVC reinforcement**
2. **Super flexible Phthalate free PVC**

Applications:

- Horticultural
- Agricultural
- Marine
- Construction

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
DHXE07	19 mm	25.6 mm	3.3 mm	9.0 Bar	0.25 Kg	76 mm	7
DHXE10	25.4 mm	32 mm	3.3 mm	8.0 Bar	0.39 Kg	102 mm	7
DHEX12	32 mm	39.6 mm	3.8 mm	7.0 Bar	0.47 Kg	127 mm	7
DHEX15	38 mm	46 mm	4 mm	6.5 Bar	0.56 Kg	152 mm	7
DHEX20	51.6 m	60.2 mm	4.3 mm	6.0 Bar	0.82 Kg	204 mm	7

HEAVY DUTY SUCTION & DELIVERY HOSE

HDS Series

Copely

A heavy duty PVC Suction and delivery hose, reinforced with a rigid kink and crush resistant internal white PVC helix. Designed to operate under strenuous working conditions, this hose is tough, flexible and extremely durable even under cold conditions. It has outstanding resistance to the effects of weather.

Key Features:

- High performance, heavy duty construction.
- Excellent vacuum properties.
- Optimum flow is maintained by the smooth bore.
- Outstanding resistance to the effects of weather.
- Excellent chemical and abrasion resistance.
- RoHS 3 compliant.

1. **Shock resistant rigid PVC reinforcement**
2. **Flexible Phthalate free PVC**

Sizes:

Custom sizes and colours available on request subject to minimum order quantities

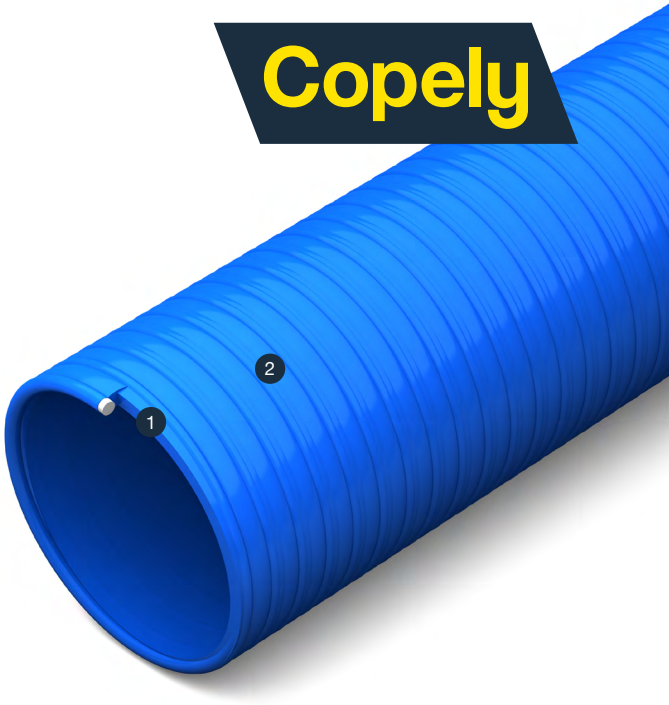
Applications:

- Delivery of water, sewage, slurries and powders
- Agricultural
- Construction
- Industrial

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
HDS10	25.4 mm	34.4 mm	4.5 mm	13.3 Bar	0.53 Kg	160 mm	9
HDS12	32 mm	41.2 mm	4.6 mm	10.0 Bar	0.67 Kg	200 mm	9
HDS15	38 mm	48.2 mm	5.1 mm	8.7 Bar	0.89 Kg	230 mm	9
HDS20	51.6 mm	62.8 mm	5.6 mm	7.3 Bar	1.28 Kg	300 mm	9
HDS25	63.5 mm	75.7 mm	6.1 mm	6.0 Bar	1.58 Kg	370 mm	9
HDS30	76 mm	89.2 mm	6.6 mm	5.7 Bar	1.93 Kg	450 mm	9
HDS40	102 mm	1118 mm	8 mm	4.3 Bar	3.58 Kg	630 mm	9
HDS50	127 mm	144.2 mm	8.6 mm	4.0 Bar	4.76 Kg	850 mm	9
HDS60	152 mm	172.4 mm	10.2 mm	3.7 Bar	6.72 Kg	1100 mm	9

OIL RESISTANT DELIVERY HOSE
MDOR Series

Copely



A medium weight PVC delivery hose specially developed for the suction and delivery of diesel, petrol and mineral based oils/ fuels. Reinforced with a rigid crush and kink resistant white PVC helix, this hose is tough but still extremely flexible. Optimum flow is maintained by the smooth bore.

Key Features:

- Resistant to a wide range of fuels and oils.
- Tough, flexible and durable even under very cold working conditions.
- Constructed for higher vacuums and pressures.
- Minimum frictional loss is achieved by the smooth bore.
- RoHS 3 compliant.

Sizes:

- Available from stock in 5 m, 10 m, & 30 m coils

Colours:

- Standard – Blue, White Helix

Custom sizes and colours available on request subject to minimum order quantities

1. Shock resistant rigid PVC reinforcement
2. Oil resistant Phthalate free PVC

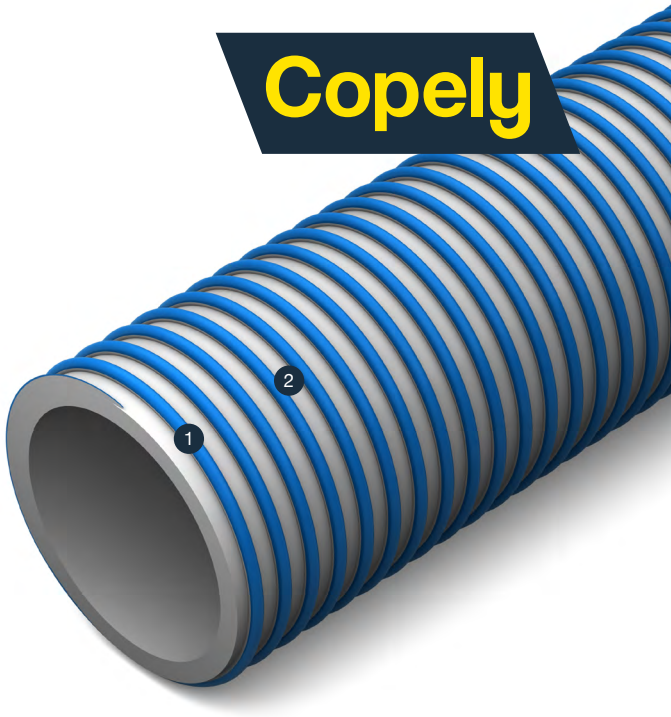
Applications:

- Transportation – fuels and oils

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
MDOR10	25.4 mm	33.8 mm	4.2 mm	9.3 Bar	0.49 Kg	113 mm	9
MDOR12	32 mm	40.8 mm	4.4 mm	8.0 Bar	0.58 Kg	144 mm	9
MDOR15	38 mm	47 mm	4.5 mm	8.0 Bar	0.68 Kg	171 mm	9
MDOR20	51.6 mm	60.9 mm	4.7 mm	7.3 Bar	1.04 Kg	230 mm	9
MDOR25	63.5 mm	73.9 mm	5.2 mm	6.7 Bar	1.36 Kg	284 mm	9
MDOR30	76 mm	87.6 mm	5.8 mm	6.0 Bar	1.70 Kg	342 mm	9
MDOR40	102 mm	115.5 mm	68 mm	4.7 Bar	2.62 Kg	459 mm	9

EXTERNAL SPIRAL SUCTION HOSE

EXSP Series



Medium duty elastic quality suction hose with an external crush resistant helix. The exposed outer helix has excellent abrasion resistance and minimises drag resistance. Tough, flexible and extremely durable even under very cold working conditions. Excellent resistance to weather.

Suitable for suction and discharge of water, slurries, liquid sewage and dilute chemicals.

1. **Shock resistant rigid PVC reinforcement**
2. **Super flexible Phthalate free PVC**

Key Features:

- Tough, flexible and extremely durable even under very cold working conditions.
- Optimum flow is maintained by the smooth bore.
- Heavy duty external helix offers improved abrasion resistance and shock resistant properties.
- Excellent chemical and abrasion resistance.
- External helix makes it easier to pull the hose across the ground.
- RoHS 3 compliant.
- Also avaialable as a fitted assembly

Sizes:

- Available in 10 m & 30 m coils

Applications:

- Suction and delivery of water, sewage, slurries and powders
- Agricultural
- Construction
- General manufacturing

Colours:

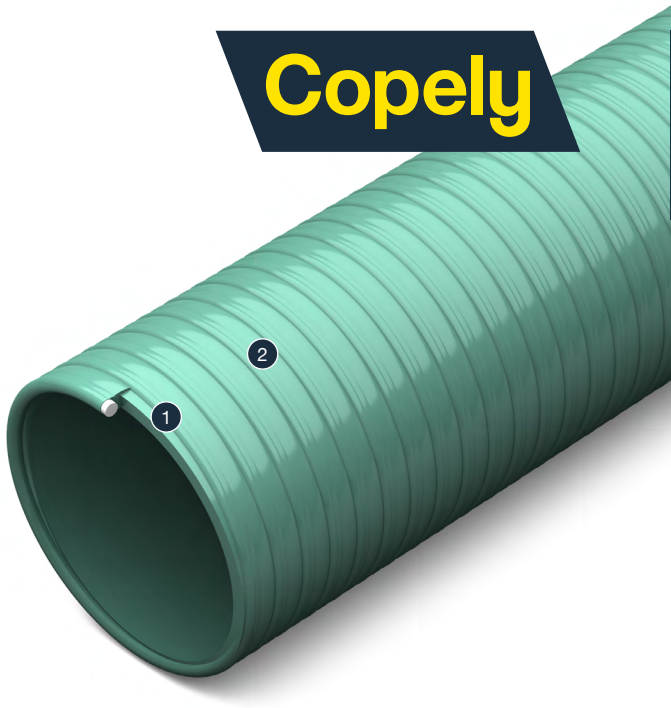
- Standard – Grey, Exposed Blue Helix

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
EXSP10	25.4 mm	35 mm	5 mm	6.7 Bar	0.50 Kg	100 mm	9
EXSP12	32 mm	42 mm	5 mm	5.7 Bar	0.60 Kg	128 mm	9
EXSP15	38 mm	49 mm	5 mm	5.3 Bar	0.70 Kg	152 mm	9
EXSP20	51.6 mm	64.5 mm	6.5 mm	5.0 Bar	1.05 Kg	204 mm	9
EXSP25	63.5 mm	77.6 mm	7.1 mm	4.7 Bar	1.39 Kg	252 mm	9
EXSP30	76 mm	92 mm	8 mm	4.3 Bar	1.70 Kg	304 mm	9
EXSP40	102 mm	120 mm	9 mm	4.0 Bar	2.85 Kg	408 mm	9
EXSP50	127 mm	145 mm	9 mm	3.3 Bar	3.90 Kg	508 mm	9
EXSP60	152 mm	171 mm	9.5 mm	3.3 Bar	5.00 Kg	608 mm	9

MEDIUM DUTY SUCTION & DELIVERY HOSE

MDS Series



A medium duty PVC suction / discharge hose, reinforced with a rigid crush and kink resistant anti-shock white PVC helix. It is tough, flexible and extremely durable and has outstanding resistance to the effects of weather.

Key Features:

- Tough, extremely durable with excellent flexibility.
- Optimum flow is maintained by the smooth bore.
- Flexibility maintained even under cold weather conditions.
- Outstanding resistance to the effects of weather.
- Excellent chemical and abrasion resistance.
- RoHS 3 compliant.
- Also avaialable as a fitted assembly

Sizes:

- Available in 10 m & 30 m coils

Colours:

- Standard – Olive Green, White Helix

Custom sizes and colours available on request subject to minimum order quantities

1. **Shock resistant rigid PVC reinforcement**
2. **Super flexible Phthalate free PVC**

Applications:

- Industrial
- Suction and discharge of water, sewage, slurries and powders
- Agricultural
- Construction

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
MDS10	25.4 mm	31.8 mm	3.2 mm	8.0 Bar	0.36 Kg	57 mm	8
MDS12	32 mm	39 mm	3.5 mm	7.0 Bar	0.46 Kg	72 mm	8
MDS15	38 mm	45.8 mm	3.9 mm	6.3 Bar	0.57 Kg	86 mm	8
MDS20	51.6 mm	60.2 mm	4.3 mm	5.3 Bar	0.83 Kg	114 mm	8
MDS25	63.5 mm	73.1 mm	4.8 mm	5.0 Bar	1.05 Kg	143 mm	8
MDS30	76 mm	86 mm	5 mm	4.0 Bar	1.47 Kg	171 mm	8
MDS40	102 mm	113 mm	5.5 mm	4.0 Bar	2.17 Kg	284 mm	8
MDS50	127 mm	139.6 mm	6.3 mm	3.7 Bar	3.20 Kg	342 mm	8
MDS60	152 mm	166.2 mm	7.1 mm	3.0 Bar	4.22 Kg	401 mm	8

SANITATION HOSE
MSH Series

Copely

A medium duty sanitation hose specially formulated with permeation resistant properties to combat odour. Reinforced with an internal rigid crush and kink resistant white PVC helix, it is tough, flexible and extremely durable even under cold working conditions and has outstanding resistance to the effects of weather.

1. **Shock resistant rigid PVC reinforcement**
2. **Super flexible odour resistant Phthalate free PVC**

Key Features:

- Odour resistant for sanitation purposes.
- Tough, flexible and extremely durable.
- Minimum frictional loss is achieved by the smooth bore.
- UV Stabilised.
- Excellent chemical and abrasion resistance. This hose is resistant to most cleaning chemicals and detergents. Flexibility maintained even under cold weather conditions.
- Suitable for delivery and suction of cleaning chemicals within caravan toilets and seawater boats.
- Flat outer profile for easy cleaning.
- RoHS 3 compliant.

Sizes:

- Available in 30 m coils

Colours:

- Standard – White, White Helix

Applications:

- Marina
- Boat
- Caravan

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
MSH07	19 mm	25.6 mm	3.3 mm	9.0 Bar	0.38 Kg	76 mm	7
MSH10	25.4 mm	32.6 mm	3.6 mm	8.0 Bar	0.39 Kg	102 mm	7
MSH12	32 mm	39.4 mm	3.7 mm	7.0 Bar	0.47 Kg	127 mm	7
MSH15	38 mm	46.0 mm	4 mm	6.5 Bar	0.56 Kg	152 mm	7

FOOD GRADE DELIVERY HOSE

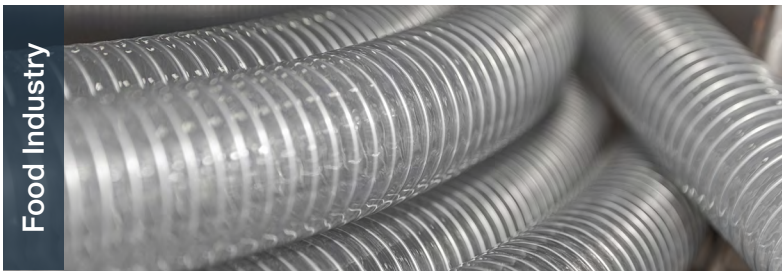
FDH Series

A lightweight clear non-toxic PVC delivery hose, manufactured from EC compliant materials, suitable for food delivery applications. Reinforced with a rigid crush and kink resistant white PVC helix, this hose is tough, flexible and extremely durable even under cold working conditions. It has outstanding resistance to the effects of weather and minimum frictional loss is achieved by the smooth bore. This is a highly flexible hose designed for low pressure suction and delivery of liquids and light powders.

1. **Shock resistant rigid PVC reinforcement**
2. **Food quality Phthalate free flexible PVC**

Key Features:

- EN No 10/2011 Compliant for food contact applications.
- Lightweight for easy handling.
- Transparent for easy visibility.
- Remains flexible, even in colder conditions.
- Excellent chemical and abrasion resistance.
- NSF51 + NSF61 approved for the transfer of drinking water.
- RoHS 3 compliant.



Sizes:

- Available in 30 m coils

Colours:

- Standard – Transparent, White Helix

Applications:

- Food industry

Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H_2O
FDH10	25.4 mm	32 mm	3.3 mm	8.0 Bar	0.33 Kg	114 mm	7
FDH12	32 mm	39.2 mm	3.6 mm	7.0 Bar	0.46 Kg	143 mm	7
FDH15	38 mm	45.4 mm	3.7 mm	6.5 Bar	0.55 Kg	171 mm	7
FDH20	51.6 m	59.8 mm	4.1 mm	6.0 Bar	0.81 Kg	230 mm	7
FDH25	63.5 mm	71.9 mm	4.2 mm	5.0 Bar	1.04 Kg	284 mm	7
FDH30	76 mm	86.4 mm	5.2 mm	4.0 Bar	1.38 Kg	342 mm	7
FDH40	102 mm	114.6 mm	6.3 mm	4.0 Bar	2.16 kg	459 mm	7

WIRE REINFORCED
WR Series

Copely

Our first truly transparent hose for use in the food industry, giving the ability to quickly and safely inspect food and material lines, to ensure that production is not interrupted. It has excellent resistance to crushing, vacuum and UV and the smooth inner wall helps to improve product flow. The wire reinforced PVC hose is food approved and is commonly used in food product transfer applications.

Key Features:

- High Vacuum resistance.
- Flexible.
- Resistant to most chemicals and UV.
- Anti-static through earthing the wire at each end.
- Suitable for food contact applications up to +60°C.
- Weather resistant.
- Durable.
- Good abrasion.
- Rot and chemical resistance.
- Good crush and kink resistance.

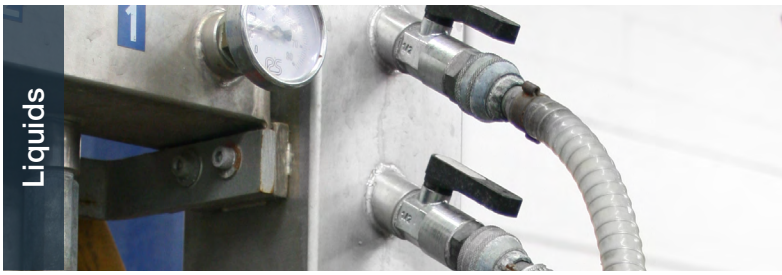
Sizes:

- Available in 10 m and 30 m coils

Colours:

- Clear with non-toxic steel spiral

1. **Phthalate free PVC**
2. **Galvanised Steel Wire Helix**



Applications:

- Suction and delivery of water, mineral water, fruit juices, liquids

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Vacuum metre H_20	Maximum Working Pressure	Minimum Burst Pressure	Weight per metre	Bend Radius (Approx.)
WR12	12 mm	18 mm	3 mm	9	7 Bar	21 Bar	0.18 Kg	25 mm
WR19	19 mm	26 mm	3.5 mm	9	5 Bar	15 Bar	0.33 Kg	45 mm
WR25	25 mm	35 mm	5 mm	9	5 Bar	15 Bar	0.51 Kg	60 mm
WR32	32 mm	40 mm	4 mm	9	4 Bar	13 Bar	0.65 Kg	75 mm
WR38	38 mm	47 mm	4.5 mm	9	4 Bar	12 Bar	0.80 kg	90 mm
WR51	51 mm	61 mm	5 mm	9	3 Bar	9 Bar	0.120 Kg	125 mm

INDUSTRIAL LAYFLAT HOSE
LH Series

A general purpose hose that offers exceptional value for money. For use on the discharge side of water pumps in drainage and irrigation, and for also conveying non solvent based liquids. Can be also suitable for spreading liquid fertilisers, agricultural chemicals, and some mild abrasive powders.

Key Features:

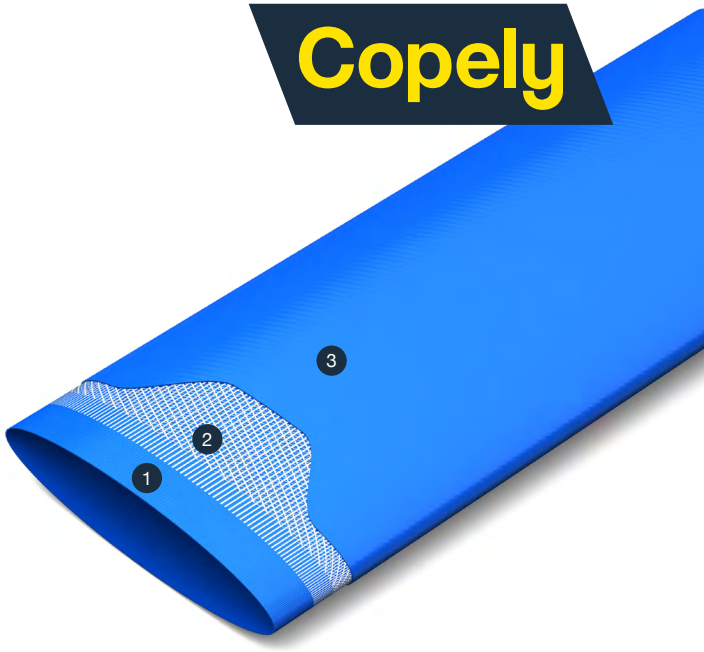
- Good flexibility.
- Abrasion resistant.
- Minimal electrical conductivity.
- Tough and durable for a longer service life.
- Fast transfer of liquids.
- Easy to store and transport.
- Recommended operating temperature: -20°C – +60°C.
- RoHS 3 compliant.

Sizes:

- 100 m – shorter lengths can be cut down on request

Colours:

- Blue



1. DEHP free PVC inner
2. Polyester fiber reinforcement
3. DEHP free PVC outer

Applications:

- Drainage
- Irrigation
- Sprinkler systems
- Construction
- Road works

Product Ref	Internal Diameter	Wall Thickness	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre
LH25	1” / 25mm	1.3 mm	4 Bar	12 Bar	0.150
LH32	1.25” / 32mm	1.2 mm	4 Bar	12 Bar	0.170
LH38	1.5” / 40mm	1.25 mm	5 Bar	15 Bar	0.205
LH52	2” / 52mm	1.0 mm	4 Bar	12 Bar	0.230
LH63	2.5” / 65mm	1.15 mm	4 Bar	12 Bar	0.320
LH76	3” / 77mm	1.1 mm	4 Bar	12 Bar	0.360
LH102	4” / 103mm	1.3 mm	4 Bar	12 Bar	0.550
LH152	6” / 153mm	1.4 mm	4 Bar	12 Bar	0.900

MEDIUM DUTY SUCTION & DELIVERY HOSE ASSEMBLIES

A medium weight PVC hose, reinforced with a rigid crush and kink resistant internal white PVC helix. It is tough, flexible and extremely durable. It has outstanding resistance to the effects of weather. Minimum frictional loss is achieved by the smooth bore.

Key Features

- Tough, flexible and extremely durable even under cold working conditions.
- Outstanding resistance to the effects of weather.
- Excellent chemical and abrasion resistance.

Colours:

Olive Green

Custom sizes and colours available on request subject to minimum order quantities

There are two main types of fixings we offer as part of our assemblies: Camlock and Leverlock Couplings.

Applications:

- Suction and discharge of water, slurry, sewage, powders and semi-liquid products
- Agricultural
- Construction

Camlock:

Camlocks are a quick connect coupling used in most industries as a hose connection to avoid leakages. They offer a quick, simple and economical way of re-connecting and disconnecting hoses. They are particularly useful where rapid filling of vessels takes place.

Leverlock:

Leverlock couplings offer a quick and simple way to join many lengths of hose together. They are often used for the pumping and transfer of water in the construction, road maintenance and general irrigation industries. They are also ideal for loading and unloading road tankers.

Diameter	Length*	Leverlock Couplings	Camlock Couplings
2”	6 m	✔	✔
2 1/2”	6 m	✖	✔
3”	6 m	✔	✔
4”	6 m	✔	✔
6”	6 m	✔	✔

*Other lengths available to customer requirements

EXTERNAL SPIRAL SUCTION HOSE ASSEMBLIES

Medium duty elastic quality suction hose with an external crush resistant helix. The exposed outer helix has excellent abrasion resistance and minimises drag resistance. Tough, flexible and extremely durable even under very cold working conditions.

Excellent resistance to weather. Suitable for suction and discharge of water, slurries, liquid sewage and dilute chemicals.

Key Features:

- Tough, flexible and extremely durable even under very cold working conditions.
- Optimum flow is maintained by the smooth bore.
- Heavy duty external helix offers improved abrasion resistance and shock resistant properties.
- Excellent chemical and abrasion resistance,

Colours:

- Grey with blue external helix

Custom sizes and colours available on request subject to minimum order quantities

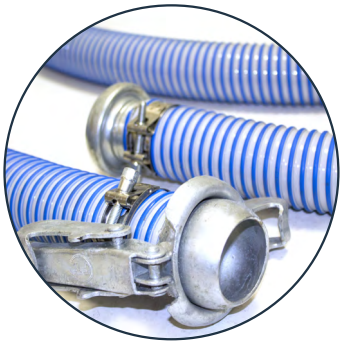
Applications:

- Suction and delivery of water, sewage, slurries and powders
- Construction
- General manufacturing industries
- Agricultural tanker applications
- Higher vacuum applications

There are two main types of fixings we offer as part of our assemblies: Camlock and Leverlock Couplings.

Camlock:

Camlocks are a quick connect coupling used in most industries as a hose connection to avoid leakages. They offer a quick, simple and economical way of re-connecting and disconnecting hoses. They are particularly useful where rapid filling of vessels takes place.



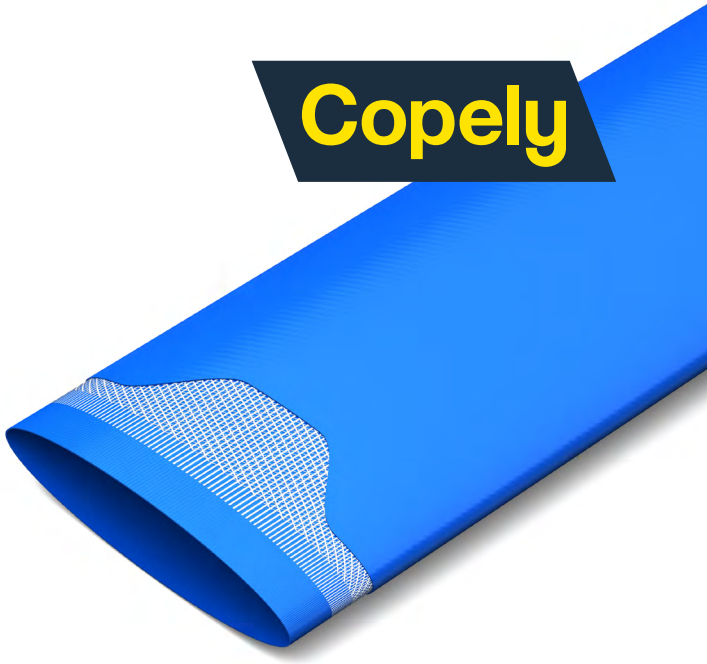
Leverlock:

Leverlock couplings offer a quick and simple way to join many lengths of hose together. They are often used for the pumping and transfer of water in the construction, road maintenance and general irrigation industries. They are also ideal for loading and unloading road tankers.

Diameter	Length*	Leverlock Couplings	Camlock Couplings
2”	6 m	✔	✔
2 1/2”	6 m	✖	✔
3”	6 m	✔	✔
4”	6 m	✔	✔
6”	6 m	✔	✔

*Other lengths available to customer requirements

INDUSTRIAL LAYFLAT HOSE ASSEMBLIES



A general purpose hose that offers exceptional value for money. For use on the discharge side of water pumps in drainage and irrigation, and for also conveying non solvent based liquids. Can be also suitable for spreading liquid fertilisers, agricultural chemicals, and some mild abrasive powders.

Key Features

- Compact in design.
- Made from Cadmium free materials.
- Resistant to a wide range of chemicals.
- Silicone-free.
- Good resistance to abrasion.
- Provides good flexibility.
- Minimum electrical conductivity.
- Tough and durable for longer lifespan.
- Fast liquid transfer.
- Nominal 3 Bar working pressure (Light duty)
- Easy to store and transport.

Applications:

- Drainage, water supply, irrigation and sprinkler systems
- Chemical transfer
- Agricultural chemicals

There are two main types of fixings we offer as part of our assemblies: Camlock and Leverlock Couplings.

Camlock:

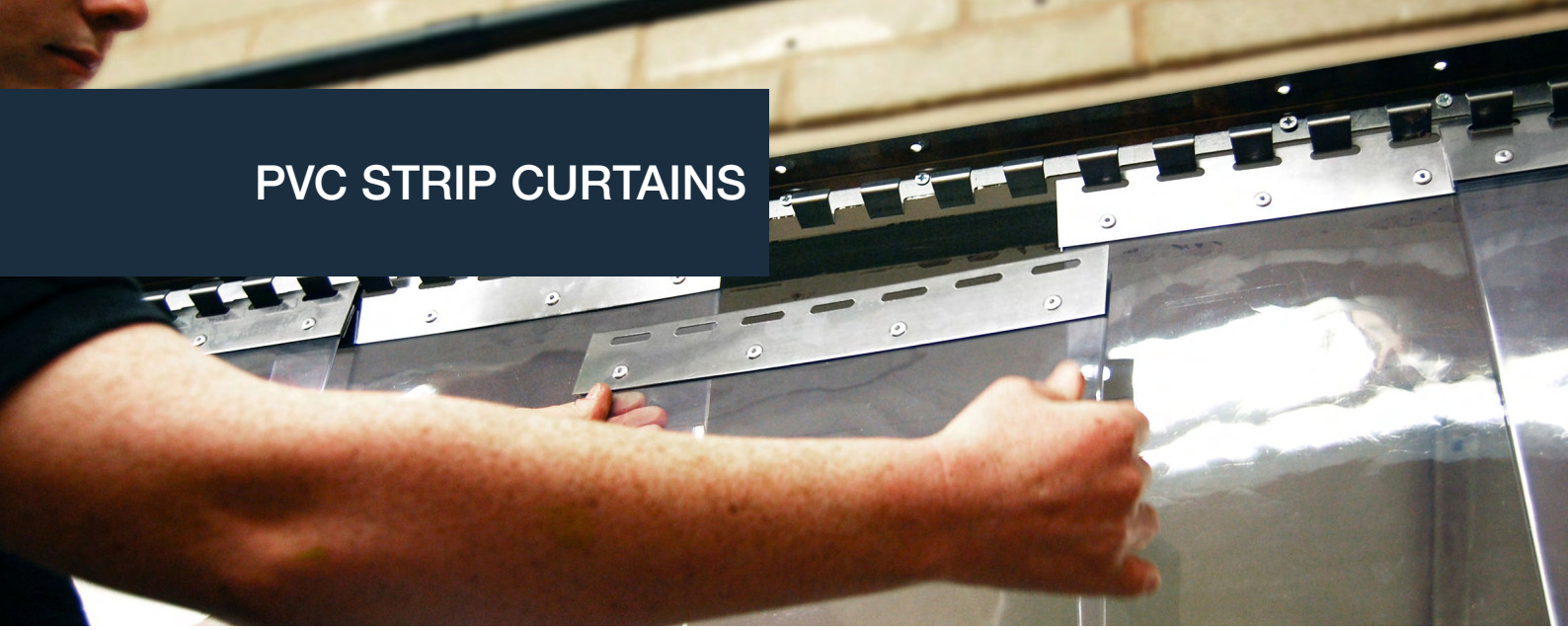
Camlocks are a quick connect coupling used in most industries as a hose connection to avoid leakages. They offer a quick, simple and economical way of re-connecting and disconnecting hoses. They are particularly useful where rapid filling of vessels takes place.

Leverlock:

Leverlock couplings offer a quick and simple way to join many lengths of hose together. They are often used for the pumping and transfer of water in the construction, road maintenance and general irrigation industries. They are also ideal for loading and unloading road tankers.

Diameter	Length	Leverlock Couplings	Camlock Couplings
2”	25 m	✔	✔
2”	50 m	✔	✔
2”	100 m	✔	✔
2”	25 m	✔	✔
2”	50 m	✔	✔
2”	100 m	✔	✔

Diameter	Length	Leverlock Couplings	Camlock Couplings
4”	25 m	✔	✔
4”	50 m	✔	✔
4”	100 m	✔	✔
6”	25 m	✔	✔
6”	50 m	✔	✔
6”	100 m	✔	✔



PVC STRIP CURTAINS

Why choose strip curtains from Copely?

Copely offers a unique system for PVC door strips. The individual strips are available directly from stock, already cut to length and with hanging plates already attached. The end user can replace just a singe strip in a door if that is all that is needed rather than having to go to the expense and time of specifying and purchasing a whole new strip curtain door. As part of the system individual hanging rails can also be purchased if these have been damaged. A full range is available in many lengths and thickness including marker strips and welding strips.

Quick Installation

Ready to hang PVC strips make installation quick and simple. Strips can also be trimmed onsite to the desired length.

Easy to Maintain

Our PVC strips come with a fitted plate, making replacements and repairs a straightforward and cost-effective process.

Save Money

Ordering by the strip, means reduced wastage and maintenance costs, along with a reduced risk of damage during fitting.

Being water and air tight makes PVC one of the best thermal insulators. Also, due to PVC's low thermal conductivity, strip curtains can help save energy

Ultra violet light can break down polymer chemical bonds, degrading transparency and performance. Our PVC strip curtains contain UV stabilisers to inhibit polymer degradation by absorbing and dissipating harmful radiators.

Loud working environments can lead to tiredness and the risk of misunderstandings in communication. PVC strip curtains can be used as a sound absorber and noise insulator to protect workers from too much noise.

	Standard	Polar	Buffer	Welding	Marker
Warehouse/Factory Environments	✓	✓	✓	✓	✓
Cold Environments		✓			
Forklift Environments			✓		✓
Welding Environments			✓		
Marking Door Frames					✓
Hanger Included	✓	✓	✓	✓	✓
Temperature	-15°C to +50°C	-40°C to +50°C	-15°C to +50°C	-15°C to +50°C	-15°C to +50°C
Colours	Clear	Clear	Clear	Green Tint	Red

Key Features:

- Cadmium Free
- Silicone Free
- Chemical Resistant
- REACH Compliant
- Abrasion Resistant
- High-Quality PVC
- Welding Strip EN 1598

Parts and sizes:

Type	Width	Thickness	Length	Part Number	Description
Standard	200 mm	2 mm	2 m	CS001-C007-PV-CL	CS – 200 x 2 Standard PVC Strip Clear 2 M
	200 mm	2 mm	3 m	CS001-C008-PV-CL	CS – 200 x 2 Standard PVC Strip Clear 3 M
	300 mm	3 mm	3 m	CS002-C009-PV-CL	CS – 300 x 3 Standard PVC Strip Clear 3 M
	300 mm	3 mm	4 m	CS002-C012-PV-CL	CS – 300 x 3 Standard PVC Strip Clear 4 M
	400 mm	4 mm	4 m	CS003-C011-PV-CL	CS – 400 x 4 Standard Strip Clear 4 M
	400 mm	4 mm	5 m	CS003-C010-PV-CL	CS – 400 x 4 Standard Strip Clear 5 M
Polar	200 mm	2 mm	2 m	CS001-C007-PV-CF	CF – 200 x 2 Cold Store PVC Strip Clear 2 M
	200 mm	2 mm	3 m	CS001-C008-PV-CF	CF – 200 x 2 Cold Store PVC Strip Clear 3 M
	300 mm	3 mm	3 m	CS002-C009-PV-CF	CF – 300 x 3 Cold Store PVC Strip Clear 3 M
	300 mm	3 mm	4 m	CS002-C012-PV-CF	CF – 300 x 3 Cold Store PVC Strip Clear 4 M
Buffer	400 mm	4 mm	4 m	CS005-C004-PV-CL	BS – 400 x 4 Buffer Strip Clear 4 M
	400 mm	4 mm	5 m	CS005-C005-PV-CL	BS – 400 x 4 Buffer Strip Clear 5 M
Welding	300 mm	2 mm	2 m	CS002-C013-PV-GR	GS – 300 x 2 Standard Strip Green Tint 2 M
Marker	200 mm	2 mm	2 m	CS001-C007-PV-RD	CS – 200 x 2 Standard PVC Strip Red 2 M
	200 mm	2 mm	3 m	CS001-C008-PV-RD	CS – 200 x 2 Standard PVC Strip Red 3 M
	300 mm	3 mm	3 m	CS002-C009-PV-RD	CS – 300 x 3 Standard PVC Strip Red 3 M
	300 mm	3 mm	4 m	CS002-C012-PV-RD	CS – 300 x 3 Standard PVC Strip Red 4 M
	400 mm	4 mm	4 m	CS003-C011-PV-RD	CS – 400 x 4 Standard PVC Strip Red 4 M
	400 mm	4 mm	5 m	CS003-C010-PV-RD	CS – 400 x 4 Standard PVC Strip Red 5 M
Rail	984 mm			FIT66	SS – Hanging Rail – 984 MM

STANDARDS

Test Methods & Procedures

BS EN ISO 4671 : 2022	Rubber and plastics hose and hose assemblies. Methods of measurement of dimensions and length.
BS EN ISO 8033 : 2017	Rubber and plastics hoses – Determination of adhesion between components.
BS EN ISO 1402 : 2021	Rubber and plastics hoses and hose assemblies. Hydrostatic testing.
BS EN ISO 7751 : 2016	Rubber and plastics hoses and hose assemblies. Ratios of proof and burst pressure to maximum working pressure.
BS 6920-1:2014	Suitability of non-metallic materials and. products for use in contact with water intended for human consumption with regards to their effect on that the quality of the water
DIN 53452	Impact Resistance.
DIN 53455	Mechanical Properties.
DIN 53479	Density.
BS ISO 2878 : 2017	Rubber vulcanised anti-static and conductive products for industrial use – Electrical resistance limits.
BS EN ISO 10619-2 : 2021	Rubber and plastics hoses. Sub-ambient temperature flexibility tests.
BS EN ISO 10619-1 : 2018	Rubber and plastics hoses and tubing. Measurement of flexibility.

Product Standards

BS 2050 : 1978	Specification for electrical-resistance of conducting and anti-static products made from flexible polymeric material.
BS EN ISO 2398 : 2024	Rubber hoses, textile-reinforced, for compressed air.
BS 3169 : 1986	Specification for first aid reel hoses for fire fighting purposes.
BS 3212 : 1991	Specification for flexible rubber tubing. Part 1 rubber hose and rubber hose assemblies for use in LPG vapour phase and LPG / air installations.
BS 3746 : 1990	Specification for PVC garden hose.
BS EN ISO 5359 : 2014 & A1 2017	Anaesthetic and respiratory equipment. Low-pressure hose assemblies for use with medical gas.
BS 5409 Part 1 : 1976	Full plasticized nylon tubing types 11 & (1996)12 for use primarily in pneumatic installations.
BS 5682 : 2015	Specification for terminal units, hose assemblies and their connectors for use with medical gas pipeline systems.
BS EN ISO 5774 : 2023	Specification for thermoplastics hoses for compressed air.
BS EN ISO 1307 : 2008	Rubber and plastics hoses for general purpose industrial applications. Bore diameters and tolerances and tolerances on length.
BS EN ISO 6224 : 2024	Plastic hoses, textile reinforced, for general purpose water applications. Specification.
BS EN ISO 8033 : 2017	Rubber and plastics hoses. Determination of adhesion between components.
DIN 74323 : 1991	Air braking systems coiled tubing.
DIN 743234-1 : 1996	Air braking systems. Polyamide tubes and pipes.
DIN 73378 : 1996	Polyamide tubing for motor vehicles.
ISO 7628 : 2010	Thermoplastic tubing for air braking systems.
BS EN 694 : 2014	Semi-rigid reel hose for first aid fixed installations.
WRAS	Water Regulations. Advisery Scheme Application Numbers on request.
ESD Approved	The ESD approval does not include any requirements on electrical safety properties. If work will be performed close to live voltages, requirements according to the Swedish National Electric Safety Board shall be obeyed. For other countries corresponding regulations are applicable.

CONVERSION TABLES

Inches Frac	Dec	mm
	.0004	.01
	.004	.10
	.01	.25
1/64	.0156	.397
	.0197	.50
	.0295	.75
1/32	.03125	.794
	.0394	1
3/64	.0469	1.191
	.059	1.5
1/16	.0625	1.588
5/64	.0781	1.984
	.0787	2
3/32	.094	2.381
	.0984	2.5
7/64	.109	2.778
	.1181	3
1/8	.125	3.175
	.1378	3.5
9/64	.141	3.572
5/32	.156	3.969
	.1575	4
11/64	.172	4.366
	.177	4.5
3/16	.1875	4.763
	.1969	5
13/64	.203	5.159
	.2165	5.5
7/32	.219	5.556
15/64	.234	5.953
	.2362	6
1/4	.250	6.350
	.2656	6.5
17/64	2656	6.747
	.2756	7
9/32	.281	7.144
	.2953	7.5
19/64	.297	7.541
5/16	3125	7.938
	.315	8
21/64	.328	8.334
	.3346	8.5
11/32	.344	8.731
	.3543	9
23/64	.359	9.128
	.374	9.5
3/8	.375	9.525
25/64	.391	9.922
	.3937	10
13/32	.406	10.319
	.4134	10.5
27/64	.422	10.716
	.4331	11
7/16	.4375	11
29/64	.453	11.509
15/32	.469	11.906
	.4724	12
31/64	.484	12.303

Inches Frac	Dec	mm
	.492	12.5
1/2	.500	12.700
	.5118	13
33/64	.5156	13.097
17/32	.531	13.494
35/64	.547	13.891
	.5512	14
9/16	.5625	14.288
	.571	14.5
37/64	.578	14.684
	.5906	15
19/32	.594	15.081
39/64	.609	15.478
5/8	.625	15.875
	.6299	16
41/64	.6406	16.272
	.6496	16.5
21/32	.656	16.669
	.6693	17
43/64	.672	17.066
11/16	.6875	17.463
45/64	.703	17.859
	.7480	18
23/32	.719	18.256
	.7283	18.5
47/64	.734	18.653
	.7480	19
3/4	.750	19.050
49/64	.7656	19.447
25/32	.781	19.844
	.7874	20
51/64	.797	20.241
13/16	.8125	20.638
	.8268	21
53/64	.828	21.034
27/32	.844	21.431
55/64	.859	21.828
	.8661	22
7/8	.875	22.225
57/64	.8906	22.622
	.9055	23
29/32	.9062	23.019
59/64	.922	23.416
15/16	.9375	23.813
	.9449	24
61/64	.953	24.209
31/32	.969	24.606
	.9843	25
63/64	.9844	25.003
1	1.000	25.400
	1.0236	26
1.1/32	1.0312	26.194
1.1/16	1.0625	26.988
	1.063	27
1.3/32	1.094	27.781
	1.1024	28
1.1/8	1.125	28.575
	1.1417	29

Inches Frac	Dec	mm
1.5/32	1.156	29.359
	1.1811	30
1.3/16	1.1875	30.163
1.7/32	1.219	30.956
	1.2205	31
1.1/4	1.250	31.750
	1.2598	32
1.9/32	1.281	32.544
	1.2992	33
1.5/16	1.3125	33.338
	1.3386	34
1.11/32	1.344	34.131
1.3/8	1.375	34.925
	1.3779	35
1.13/32	1.406	35.719
	1.4173	36
1.7/16	1.4375	36.513
	1.4567	37
1.15/32	1.469	37.306
	1.4961	38
1.1/2	1.500	38.100
1.17/32	1.531	38.894
	1.5354	39
1.9/16	1.5625	39.688
.113	1.5748	40

Inches Frac	Dec	mm
1/19/32	1.594	40.481
	1.6142	41
1.5/8	1.625	41.275
	1.6535	42
1.21/32	1.6562	42.069
1.11/16	1.6875	42.863
	1.6929	43
1.23/32	1.19	43.656
	1.7323	44
1.3/4	1.750	44.450
	1.7717	45
1.25/32	1.781	45.244
	1.8110	46
1.13/16	1.8125	46.038
1.27/32	1.844	46.831
	1.8504	47
1.7/8	1.875	47.625
	1.8898	48
1.29/32	1.9062	48.419
	1.9291	49
1.15/16	1.9375	49.213
	1.9685	50
1.31/32	1.969	50.006
2	2.000	50.800

Conversion of BS softness to hardness

The following table converts British standard softness to British standard hardness degrees (this scale closely approximates to the international rubber hardness and Shore A scales – 15 sacs indentator at 23°C) **Example:** to find the hardness of BS softness 65 line up 60 on the left hand column with figure 5 along the top. This indicates a Shore 'A' hardness of 63.

bss	0	1	2	3	4	5	6	7	8	9
0	100	100	100	100	99	99	99	98	98	97
10	97	95	95	95	94	93	93	92	92	91
20	90	89	89	89	87	86	86	85	84	84
30	83	82	82	81	80	80	79	78	78	77
40	77	76	75	75	74	74	73	73	72	71
50	71	70	70	69	69	69	68	67	67	66
60	65	65	65	64	64	63	63	62	62	62
70	61	61	60	60	59	59	59	58	58	57
80	57	57	56	56	56	55	55	54	54	54
90	53	53	53	52	52	52	51	51	51	50
100	50	50	49	49	49	48	48	48	48	47
110	47	47	46	46	46	46	45	45	45	45
120	44	44	44	43	43	43	43	42	42	42
130	42	42	41	41	41	41	40	40	40	40
140	40	39	39	39	39	38	38	38	38	38
150	37	37	37	37	37	36	36	36	36	36
160	35	35	35	35	35	35	34	34	34	34
170	34	34	34	33	33	33	33	33	33	33
180	33	32	32	32	32	32	32	32	31	31
190	31	31	31	31	31	31	31	31	31	31
200	30	30	30	30	30	30	30	30	30	30

CHEMICAL RESISTANCE CHART

Please find in the table below, resistance ratings for ten primary materials used in the manufacture of our products, against a wide range of chemicals and mixtures. The symbols used to denote performance are as follows:–

G	Good Resistance
F	Fair Resistance
L	Limited Resistance
P	Poor Resistance

In order to give guidance, the resistance of PVC to some chemicals has been predicted from its resistance to other chemicals which have a similar composition. Such predictions are shown using an asterisk (*) with the symbols listed above.

It may be safely assumed that chemical resistance decreases with both increasing temperature and with increasing concentration of reagent, and that the reverse is also true. No valid assumptions can be made, however, if the temperature and concentration move in compensating directions.

Chemical resistance of polyurethane hoses and composite hoses sleeved with polyurethane. The polyurethane is not recommended for continuous use in contact with water above 40°C (or solutions containing water above 40°C) because of its hydrolising effect. Hydrolysis can also occur with long exposure to:

- high humidity at elevated temperatures,
- acid and alkali solutions,
- aerated water,
- fungi and bacteria.

Some substances having a satisfactory rating may give swelling but this is usually minimal. The assumption should not be made that this indicates deterioration of the polyurethane.

G = Good Resistance L = Limited Resistance
F = Fair Resistance P = Poor Resistance

		Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
Chemical	Chemical Formula	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Acetaldehyde 40% aq sol	C_2H_4O	P	P	G-L	P	G	P	G	L	G	G	P	P	G	G	L-P	P	G	G	G	G
Acetaldehyde 100% aq sol	C_2H_4O	P	P	L	P	G	P	G	L	G	G	P	P	G	G	L-P	P	G	G	G	G
Acetic Acid 10% aq sol	$C_2H_4O_2$	G	L	L	P	L	P	L	P	G	G	P	P	G	G	G	G	G	G	G	G
Acetic Acid 25%	$C_2H_4O_2$	G	L	L	P	L	P			G	G	P	P	G	G	G	G	G	G	G	G
Acetic Acid 60% aq sol	$C_2H_4O_2$	G	L	L	P	P	P			G	G	P	P	G	G	G-L	G-L	G	G	G	G
Acetic Acid glacial	$C_2H_4O_2$	P	P	L	P	L	P	G	G	P	P	P	P	G	G	G-L	G-L	G	G	G	G
Acetic Anhydride	$C_4H_6O_3$	P	P	L		L		G		P	P	P	P	G	G	L	L-P	G	G	P	P
Acetone 100%	C_3H_6O	P	P	G-L	L-P	G	L	P	P	L	P	L	P	L	L	L-P	P	G	G	G	G
Acetone traces	C_3H_6O	P	P	G	L	G	L	P	P	L	P	P	P	L	L	L-P	P	G	G	G	G
Acetonitrile	C_2H_3N	P	P																		
Acetophenone	C_8H_8O	P	P																		
Acetylene Gas	C_2H_2	G	G	G	G	G	G	G	G	G	G	G-L	L	L	L			G	G	G	G
Acrylonitrile	CH_2CHCN	G	G			G	L	L	L	G	G	P	P	G	G			G	G	G	G
Adipic Acid	$C_6H_{10}O_4$	G	G							G	G					G	G	G	G		
Alcohol Allyl	C_3H_6O	P	P			L	P									G	G				
Alcohol Amyl	$C_5H_{11}OH$	G	G	G	G	G	G	G	G	G	G	L		P	P	G	G-L	G	G	G	G
Aliphatic Hydrocarbons	$C_3H_7NO_2$																				
Allyl Chloride	C_3H_5Cl	P	P			L										L	P				
Alum	$KAl(SO_4)_2{\cdot}12H_2O$	G	G	G		G		P	P	G	G	G	L	G	G	G	G	G	G	G	G
Aluminium Oxolate	AlF_3	G	G			G										G	G			G	G
Aluminium Acetate	AlF_3	G				G										G	G			G	G
Aluminium Chloride	$AlCl_3$	G	G	G		G	G	L	L	G	G	G-L	L	P	P	G	G	G	G	G	G
Aluminium Fluoride	$AlCl_3$	G		G		G		G	P	G	G	P	P	G	G	G	G	G	G	G	G
Aluminium Hydroxide	$Al(HO)_3$	G		G		G				G	G	L	P	G	G	G	G	G	G	G	G
Aluminium Nitrate	$Al(NO_3)_3$	G	G	G		G				G	G			L	L			G	G	G	G
Aluminium Oxychloride	Al_2O_3	G				G														G	G
Aluminium Potassium	Al_2O_3	G	G	P	P	P	P			G	G			G	G			G	G	G	G
Aluminium Sulphate	$Al_2(SO_4)_3$	G	G	G	G	G	G	G	L	G	G	G-L	L	G	G	G	G	G	G	G	G
Ammonia	NH_3	G				G		G	L	G	G	L	L	L	L			G	G	G	G
Ammonia 0.88S.G.aqsol	NH_3	L-P	P	G	G	G				L	L	G				G	G	G	G	G	G
Ammonia anhydrous gas	NH_3	L		G	G	G	G	P	P	F	F	P	P			G	G	G	G	F	
Ammonium Carbonate	$(NH_4)_2CO_3$	G	G	G	G	G	G			G	F	P	P	L	L	G	G	G	G	G	
Ammonium Chloride	$(NH_4)Cl$	G	G	G	G	G	G	G	G	G	G	G-L	G-L	G	G	G	G	G	G	G	G
Ammonium Fluoride 20%	$(NH_4)F$	G				G															
Ammonium Hydrosulfide	H_5NS	G				G										G	G				
Ammonium Hydroxide	$NH_3 + H_2O$	G	G	G	G	G	G	F	L	G	G	P	P	G	G	G	G	G	G	G	G
Ammonium Metaphosphate	$C_2H_7NO_2$	G				G	G			G		G		G	G			G	G	G	
Ammonium Nitrate	$(NH_4)NO_3$	G	G	G	G	G	G	G	F	G	G	P	P	F	F	G	G	G	G	G	G
Ammonium Oxalate	$C_2H_8N_2O_4$	G	G			G										G	G				
Ammonium Persulphate	$(NH_4)_2S_2O_8$	G	G	P	P	P	P			G	G			P	P	G	G	G	G	G	G
Ammonium Phosphate	$(NH_4)_3PO_4$	G	G	G	G	G	F	F	P	G-F	F	G	F	G	G	G	G	G	G	G-F	G-F
Ammonium Sulphate	$(NH_4)_2SO_4$	G	G	G	L	G	L	G	G	G	G	G		G	G	G	G	G	G	G	G
Ammonium Sulphide	$(NH_4)_2S$	G	L	G	G	G	G			G	G					G	G	G	G	G	G≠
Ammonium Thiocyanate	NH_4SCN	G	G			G	G			G		L		G	G	G	G				

G = Good Resistance L = Limited Resistance
F = Fair Resistance P = Poor Resistance

Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Amyl Acetate	$C_7H_{14}O_2$	P	P	G	G	G	G	F	L	P	P	P	P	P	P	P	P	G	G	G	G
Amyl Alcohol	$C_5H_{11}OH$	L	L	G	G-F	G	G-F	G	G	G	P	L		P	P	G	P	G	G	G	P
Amyl Chloride	$C_5H_{11}Cl$	P	P	F	L	F	L			P	P			P	P	P	P	G	G	P	P
Anethole	$C_{10}H_{12}O$			G		G				P	P										
Aniline	C_6H_7N	P	P	G	F	G	F	P	P	F	F	P	P	F	F	L	P	G	G	G	F
Aniline Colouring	$C_6H_5NH_2$	G	G					L	P	P	P	P	P	L	L			G	G	P	P
Aniline Hydrochloride	C_6H_8ClN	F	F	P	P	P	P			P	P	L-P	P	P	P	L	P	G	G	P	P
Aniline Sulphate	$C_6H_{13}ClN_6$	G				L-P						L-P	P			L	P				
Animal Oils	—	G	P	G	G	G				L	P	G-L				L	P			G	L
Anthraquinone	$C_{14}H_8O_2$																				
Anthraquinone Sulphonic Acid	C_7H_8O																				
Antimony Chloride	SbCl	G	G					L	L	P	P	G		P	P	G	G	G	G	G	
Antimony Trichloride	$SbCl_3$	G	G							L	L					G	G				
Aqua Regia concentrated	HNO_3+$_3$HCl	F	F	P	P	P	P			F	F	P	P	P	P	P	P	G	G	F	F
Aqua Regia dilute	HNO_3+$_3$HCl	F	F	P	P	P	P			F	F	P	P	P	P	P	P	G	G	F	F
Arcton 11 (Refrigerant)	CCl_3F											L									
Arcton 113 (Refrigerant)	$C_2Cl_3F_3$			P	P	P	P					P	P								
Arcton 114 (Refrigerant)	$C_2Cl_2F_4$																				
Arcton 12 (Refrigerant)	CCl_2F_2	P	P	G		G						L									
Arcton 22 (Refrigerant)	$CHClF_2$			G		G						L									
Arcton 6 (Refrigerant)	CCl_2F_2																				
Arsenic Acid concentrated	H_3AsO_4	G	L			P	P			G	G	P	P	L	L	G	G	G	G		
Arysulphonic Acid	As_2O_5	P	P																		
Asphalt	—	P	P							G	G	P	P	L	L			G	G		
Barium Carbonate	$BaCO_3$	G		G	G	G	G			G	G	G	G	G	G	G	G	G	G	G	G
Barium Chloride	$BaCl_2$	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Barium Hydroxide	$Ba(HO)_2$	G	G	G	G	G	G	G	G	G	G	F		G	G	G	G	G	G	G	G
Barium Sulphate	BaS	G	G	G	G	G	G	P	P	G	G	G	F	G	G	G	G	G	G	G	G
Barium Sulphide	BaS	G	G	G	G	G	G			G	G	G		G	G	G	G	G	G	G	G
Beer	—	G		G		G		G		G		G		G		G		G		G	
Benzaldehyde 100%	C_7H_6O	P	P	F	F	F	F	F	F	P	P	P	P	P	P	L	P	G	G	G	L-P
Benzaldehyde traces	C_7H_6O	P	P	F	F	F	F	F	F	P	P	P	P	P	P	L	P	G	G	G	L-P
Benzene	C_6H_6	F-L	L	G	G	G	G	F		F	P	L-P	P	P	P	P	P	G	G	F	P
Benzoic Acid	$C_7H_6O_2$	G	G	P	P	P	P	P	P	G	G			F	F	L	L	G	G	G	G
Benzyl Alcohol	C_7H_8O	F	P	L	P	L	P	L-P		G-F	L-P	P	P			P	P	G	G	G-F	L-P
Benzyl Chloride	C_7H_7Cl	G		G	G	G	G					P						G	G		
Bisulfitic Detergents	—					G	G	G	P												
Bleach	—	G	L			G	P	P	P	G	G	L	P	G	G			G	G	G	G
Borax	—	G	P	G	G	G	G	G	G	G	G	G	G	F	F	G	G	G	G	G	G
Boric Acid	H_3BO_3	G	G	G	F	G	F	G	G	G	G	L	L	L	L	G	G	G	G	G	G
Brine	—	G	G			G				G	G	G	G			G	G			G	G
Bromhydric Acid 10%	HBr	G	G					P	P	G	G	P	P	P	P			G	G	G	G
Bromhydric Acid 50%	HBr	P	P					P	P	G	G	P	P	P	P			G	G	L	L
Bromine – 100% dry gas	Br_2	L		P	P	P	P	P	P	P	P					P	P	G	G	P	P
Bromine – liquid	Br_2	P	P	P	P	P	P	P	P	P	P	P	P			P	P	G	G	P	P
Bromine traces – gas	Br_2	L		P	P	P	P	P	P	P	P					P	P	G	G	P	P
Bromobenzene	C_6H_5Br	P	P			G	P	P	P	P	P			P	P			G	G	P	P
Butadiene	C_4H_6	F	F	F	f	F	f			P	P					G	G	G	G	P	P
Butane Gas	C_4H_{10}	F	F	G	G	G	G	G	G	F	F	G-F	F	P	P	G	G	G	G	F	F
Butanediol	$C_4H_{10}O_2$	P	P													G	G				
Butyl Acetate	$C_6H_{12}O_2$	P	P	G	G	G						P	P					G	G	G	L
Butyl Alcohol (Butanol)	$C_7H_{12}O_2$	F	F	G-L	L	G-L	L	G	F	G	L	L		L	L	G	L	G	G	G	G
Butyl Ether	$C_8H_{18}O$	G	G							G		P		P	P			G	G	G	
Butyl Glycol	$C_6H_{14}O_2$	P	P							G		P	P	L	L			G	G		
Butyl Stearate	$C_{22}H_{44}O_2$	P	P					P	P	P	P	G		G	G					P	P
Butyric Acid 20% aq sol	$C_4H_8O_2$	G	G	F	F	F	F	G	G	P	P			P	P	L-P	L-P	G	G	P	P
Butyric Acid concentrated	$C_4H_8O_2$	P	P							P	P			P	P	L-P	L-P	G	G	P	
Calcium Arsenate	$Ca_3As_2O_8$			G	G	G	G														
Calcium BisulphIte	$CaH_2O_6S_2$	G	G	G	G	G	G			G	G	G	G	F	F	G	G	G	G	G	G
Calcium Carbonate	$CaCO_3$	G	G	G	G	G	G			G	G			G	G	G	G	G	G	G	G
Calcium Chlorate	$Ca(ClO_3)_2$	G	G									G-L	L			G	G	G	G		
Calcium Chloride aq sol	$CaCl_2$	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G	G	G	G	G
Calcium Hydroxide	$Ca(OH)_2$	G	G	G	G	G	G	G		G	G	L	L	G	G	G	G	G	G	G	G
Calcium Hypochlorite Dilute	$Ca(ClO)_2$	G	G	P	P	P	P	F		G	G	P	P	G	G	G	G	G	G	G	G
Calcium Sulphide	CaS	G	G							G		P	P	P	P			G	G	G	G
Carbolic Acid (phenol)	C_6H_6O	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	P	P
Carbon Bisulfur	CS_2							P	P	L	L	P	P	P	P			G	G	L	L
Carbon Dioxide (Dry)	CO_2	G	G	G	G	G	G	G	G	G	G	G	G	F	F	G	G	G	G	G	G
Carbon Dioxide (Wet)	CO_2	G	F			G	F			G		L	P	G	G			G	G	G	G
Carbon Disulphide	CS_2	P	P	G-L	L	G	P	P	P	F	P	L-P	P	L	L	P	P	G	G	F	P
Carbon Monoxide	CO	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Carbon Tetrachloride	CCl_4	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	L	P
Carbonic Acid	H_2CO_3	G	G	G	G	G	G	P	P	G	G	G	G	G	G	G	G	G	G	G	G
Casein	—	G	G																		
Castor Oil	—	L	L	G	G	G	G	G	G	G	L	G	G	G	G	L-P	P	G	G	G	G
Cetyl Alcohol	$C_{16}H_{34}O$	G	G			G										P	P	G	G		
Chloracetic Acid	$C_2H_3ClO_2$	L	P	P	P	P	P	P	P	F	F	P	P	G	G			G	G	G	G

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Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Chloral Hydrate	$C_2H_3Cl_3O_2$	P	P													L-P	P				
Chloric Acid	$HClO_3$			P	P	P	P											G	G		
Chlorine 10% dry gas	Cl_2	P	P	P	P	L-P	P	P	P	L-P	P	P	P	P	P	P	P	G	G	P	P
Chlorine 10% moist gas	Cl_2	P	P	P	P	L-P	P	P	P	P	P	P	P	P	P	P	P	G	G	L	P
Chlorine 100% dry gas	Cl_2	P	P	P	P	L-P	P	P	P	L-P	P	P	P	P	P	P	P			P	P
Chlorine Trifluoride	ClF_3	P	P																		
Chlorine water 2 % sol	$Cl_2 \times H_2O$	G	G	G	G	G	G	G		G	G			P	P			G	G	G	G
Chlorine water sat sol	$Cl_2 \times H_2O$	L				L-P	P			G	G	P	P	P	P	G-L	L-P	G	G	P	P
Chlorobenzene	C_6H_5Cl	P	P	P	P	P	P	P	P	F	P	P	P	P	P	P	P	G	G	F	P
Chloroform	$CHCl_3$	P	P	G	G	G	G	P	P	F	L-P	P	P	P	P	P	P	G	G	F	L-P
Chlorosulphonic Acid	$ClHSO_3$	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G	G	P	P
Chrome Alum	$CClF_3$	G				G-L	L									G	G			G	G
Chromic Acid 5%	H_2CrO_4	G	G	P	P	P	P	P	P	P	P	P	P	F	F	G	G	G	G	P	P
Chromic Acid 10%	H_2CrO_4	G	G	P	P	P	P	P	P	P	P	P	P	F	F	G	G	G	G	P	P
Chromic Acid 30%	H_2CrO_4	G	G	P	P	P	P	P	P	P	P	P	P	F	F	G	G	G	G	P	P
Chromic Acid 50%	H_2CrO_4	L	L	P	P	P	P	P	P	P	P	P	P	L	L	G	G	G	G	P	P
Cider	—	G		G		G		G		G		G		G		G		G		G	
Citric Acid	$C_6H_8O_7$	G		G	G	G	F	G	F	G	G	L	P	P	P	G	G	G	G	G	G
Coal Gas	—	P	P	G		G															
Coal Tar	—	P	P			G	L	G	L									G	G		
Concentrated Hydrochloric Acid	HCl	L	P			P	P	P	P	G	G	P	P	L	L			G	G	L	L
Concentrated Potassium	—	G	P			G	G	P	P	G	G	P	P					G	G	G	
Concentrated Soda	—	G	P			G	P	P	P	G	G	P	P	L	L			G	G	L	L
Copper Acetate	$Cu(CH_3COO)_2$							G	L	G	G	G	L	G	G			G	G	L	L
Copper Arsenate	—									G		G		G	G			G	G	L	
Copper Chloride	CuCl	G	G	P	P	P	P	G	F	G	G			G	G	G	G	G	G	G	G
Copper Cyanide	CuCN	G	G	P	P	P	P			G	G	L	F	G	G	G	G	G	G	G	G
Copper Fluoride	CuF	G				F-L										G	G	G	G	G	G
Copper Nitrate	$Cu(NO_3)_2$	G	G	P	P	P	P			G	G					G	G	G	G	G	G
Copper Sulphate Solution	$CuSO_4$	G	G	L-P	L-P	L-P	L-P	F		G	G	G		G	G	G	G	G	G	G	G
Creosote	CH_8	F-L		P	P	P	P	P		L		P				P	P	G	G	L	
Cresols	C_7H_8O	P	P	P	P	P	P	P	P	F-L	F-L	P	P	P	P	P	P			F-L	F-L
Cresylic Acids	$CH_3C_6H_4OH$	P	P	P	P	P	P			G	G	P	P	P	P	P	P	G	G	G	G
Crude Oil	—	L		G	G	G	G			P	P	G-L	G-L			P	P	G	G		
Cupric Chloride	$CuCl_2$	G	G													G	G				
Cupric Fluoride	CuF_2	G														G	G				
Cupric Nitrate	$Cu(NO_3)_2$	G	G													G	G				
Cupric Sulphate	$Cu(NO_3)_2$	G	G													G	G				
Cyanhydric Acid	$C_3H_3N_3O_3$							G	P	G	G	L	P					G	G	L	P
Cyanide	—	G	G							G	G	G-L				G	G				
Cyclohexane	C_6H_{12}	P	P	G	L	G	L	P	P	G	F	P	P	P	P	P	P	G	G	G	
Cyclohexanol	$C_6H_{12}O$	P	P	G	L	G	L	P	P	G	G	L-P	P			G-L	L-P	G	G	G	G
Cyclohexanone	$C_6H_{10}O$	P	P	G	F	G	F			P	P	L-P	P	P	P	G-L	L-P	G	G	L	L
DDT Preparation	$C_{14}H_9Cl_5$			G		G															
Decalin	$C_{10}H_{18}$			G	G	G	G	G	L	L	P							G	G	L	P
Detergent (synthetic) all concentrations	$C_{15}H_{10}N_2O_2$	G	G			G				G	L-P			G	G	G	G	G	G	G	G
Detergents Alkaline	$C_{15}H_{10}N_2O_2$	G	G			G				G	G			G	G	G	G				
Developers, photographic	—	G	G							G	G					G	G			G	G
Dextrin (Starch gum)	$(C_6H_{10}O_5)n$	G	G													G	G				
Dextrose	$C_6H_{12}O_6$	G	G													G	G				
Diacetone Alcohol	$C_6H_{12}O_2$	P	P	G	L	G	L	L	P	G	G	P	P	P	P			G	G	G	G
Diammonium Phosphate	$H_8N_2O_4P$			G	L	G	L														
Dibutyl Phthalate	$C_{16}Br_{22}O_4$	P	P	G	G	G	G	G	L	P	P	P	P	L	L	L	P	G	G		
Dichlorethylene	$C_8H_{19}N$	P	P	G	G	L	G	P	P	P	P	P	P	P	P			L	L	P	P
Dichloro Methane	CH_2Cl_2	P	P	L		L															
Dichlorobenzene	$C_6H_4Cl_2$	P	P											P	P	P	P				
Dichloroethane	$C_4H_4Cl_2$	P		G	G	G	G			F	L							G	G	F	F
Diesel Oil	—	P	P	G	G	G	G	F	G	F	L	G	G	P	P	L	P	G	G	F	L
Diethyl Ether	$C_4H_{11}NO_2$	P	P	G	G	G	G	F		P	P	G		P	P	P	P	G	G	P	P
Diethylamine	$C_4H_{11}N$	P	P					P	P					G	G			G	G		
Diethylene Glycol	$C_4H_{10}O_3$	F	L	G	G	G	G	G	L	G	F	G	F	F	F	G	G	G	G	G	F
Diisocyanate	C_6H_{10}	P	P	G		G															
Dimethylamine	C_2H_7N	P	P					P	P	L	L			F	F			G	G	L	L
Dimethyl Formanide	C_3D_7NO	P	P	G	G	G	G	G	F	G	G	P		L	L			G	G	G	G
Dimethyl Sulphoxide	C_2H_6OS	P		F	F	G	F											G	G		
Dimethylcarbinol	C_3H_8O	G																			
Dioctyl Phosphate	$C_{16}H_{35}O_4P$	L	P	G	G	G	G			L	P	L				L	P				
Dioctyl Phthalate	$C_{24}H_{38}O_4$	P		G	G	G	G	G	F							L-P	P	G	G		
Dioxane	$C_4H_8O_2$	P	P			G	G			L	P	L				L	P			G	G
Disodium Phosphate	Na_2O_4P	G	G							G	G					G	G				
Dodecyl Alcohol	$C_{12}H_{26}O$	G	G			G															
Dry Sulfuric Anhydride	—					L	P	P	P	L	L	L	P	L	L			G	G		G
Dry Sulfurous Anhydride	—	G	G							G	G	L	P	G	G			G	G	G	
E85	—	P	P			P	P	G	L	P	P	G	G	P	P			G	G	P	P
Emulsifiers all concs.	—	G	G													G	G	G	G		
Emulsions, photographic	—	G	G													G	G				
Ethane	C_2H_6	G	G	P	P	P	P					F		P	P			G	G		
Ethyl Acetate	$C_4H_8O_2$	P	P	G	G	G	G	F	P	F	F	P	P	F	F	L-P	P	G	G	G	F
Ethyl Acrylate	$C_5H_8O_2$	P	P					G	L					G	G			G	G		
Ethyl Alcohol	C_2H_6O	G-L	L	G-L	P	G-L		G	L	G	L	L	P	G	G	G	G-L	G	G	G	G-L
Ethyl Alcohol (Ethanol)	C_2H_6O	G		L-P	L-P	L-P	L-P	G										G	G		
Ethyl Alcohol 20% aq sol	C_2H_6O	G	L-P	G-L	P	G-L	P			G	P	L	P			G	G				

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Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Ethyl Benzene	C_8H_{10}	P	P					P	P	L	L	P	P					G	G	L	L
Ethyl Butryate	$C_6H_{10}O_2$	P	P	G	G	G	G									L-P	P	G	G		
Ethyl Cellulose	—							L	P					L	L			G	G		
Ethyl Chloride	C_2H_5Cl	P	P	G	G	G	G	P	P	P	P	L-P	P	P	P	P	P	G	G	L	P
Ethyl Ether	$C_5H_{11}NO_2$	P	P	G	L	G	L	P	P	P	P	L	P	P	P	P	P	G	G		
Ethyl Formate	$C_3H_6O_2$	P	P													L-P	P				
Ethyl Mercatan	C_2H_5SH	P	P					G	L	P	P							G	G	P	P
Ethyl Sulphate	$C_2H_6O_4S$			G	G	G	G											G	G		
Ethylene	C_2H_4							G	L			G	G					G	G		
Ethylene Bromide	$C_2H_4Br_2$	P	P							P	P	P	P	P	P			G	G	P	P
Ethylene Chlorhydrin	C_2H_5ClO	P	P	P	P	P	P			P	P			L	L			G	G	P	P
Ethylene Chloride	$C_2H_4Cl_2$	P	P	G	F	G	F	G	L	P	P	L	P	P	P	P	P	G	G	L	P
Ethylene Diamine	$C_2H_8N_2$	P	P					P	P	G	G			G	G			G	G	G	G
Ethylene Dibromide	$C_2H_4Br_2$	P		G	L	G	L					P						G	G		
Ethylene Dichloride	$C_2H_4Cl_2$	P	P	G	F	G	F	F-L		P	P			P	P	P	P	G	G	P	P
Ethylene Glycol	$C_2H_6O_2$	L	P	G	F	G	F	G	F	G	G	L	P	G	G	G	G	G	G	G	G
Ethylene Glycol 30%	$C_2H_6O_2$	G	L	G	F	L	F	G	L	G	G	L	P	G	G	G	G	G	G	G	G
Ethylene Oxide	C_2H_4O	P	P	G	F	G	F	G	F	G	G	P	P	P	P	P	P	G	G	G	G
Fatty Acids	—	G	G	G	G	G	G			P	P			F	F			G	G	P	P
Ferric Chloride	$FeCl_3$	G	G	G	G	G	G	L	L	G	G	G	F	F	F	G	G	G	G	G	G
Ferric Nitrate	$Fe(NO_3)_3$	G	G	G	G	G	G			G	G	G		F	F	G	G	G	G	G	G
Ferric Sulphate	$Fe_2(SO_4)_3$	G	G	G	G	G	G	G		G	G	L	P	F	F	G	G	G	G	G	G
Ferrous Ammonium	$Fe_2(SO_4)_3$	G	G													G	G			G	G
Ferrous Chloride	$FeCl_2$	G	G	P	P	P	P	G	L	G	G	P	P	G	G	G	G	G	G	G	G
Ferrous Sulphate	$FeSO_4$	G		P	P	P	P	G		G	G					G	G	G	G	G	G
Fixing Solution, Photographic	—	G	G							G	G					G	G				
Flavours and Essences	—			G	G	G	G			G		G				G					
Fluoride Boric Acid	BF_4H	G	G							G	G	P	P	G	G			G	G	G	G
Fluorine	F_2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	L	P
Fluosilic Acid 40% aq sol	H_2SiF_6	L		P	P	P	P	F		G	G					G	G	G	G	G	G
Formaldehyde 40%aq sol	CH_2O	L	P	G	F	G	F	G	F	P	P	L	P	G	G	G	L	G	G	P	P
Formic Acid 3% aq sol	CH_2O_2	G	G	P	P	P	P			G	G	P	P			G	G			G	G
Formic Acid 25% aq sol	CH_2O_2	L	P	P	P	P	P			G	G	P	P			G	G			G	G
Formic Acid 50% aq sol	CH_2O_2	L	P	P	P	P	P			G	G	P	P			G	G-L			G	G
Formic Acid 100% aq sol	CH_2O_2	P	P	P	P	P	P	L		P	P	P	P			G	G-L	G	G	P	P
French Polish		P	P	G-L		G-L				G		L	P			G					
Freon 11 (Refrigerant)	CCl_3F	G	G	P	P	P	P	G		F	F	L		P	P			G	G	F	F
Freon 113 (Refrigerant)	$C_2Cl_3F_3$	F	F	G	L	G	L	G	F			G		P	P			G	G		
Freon 114 (Refrigerant)	$C_2Cl_2F_4$			G	L	G	L	G										G	G		
Freon 12 (Refrigerant)	CCl_2F_2	G	G	G	F	G	F	G		G	G	L		P	P			G	G	G	G
Freon 22 (Refrigerant)	$CHClF_2$	G	G	F	F	G	F					L		P	P			G	G		
Fructose	$C_6H_{12}O_6$	G	G	G	G											G	G	G	G	G	
Fruit Pulp/Juices	—	G	G	G	G	G				G-L	G-L	G				G	G	G	G	G	G
Fuel oil	—	G	G	G	G	G	G-L	F	L	F	F	G	L	P	P	L	P	G	G	F	F
Furan (furfuran)	—							G	L					L	L			G	G		
Furfural	$C_5H_4O_2$	P	P	G	F	G	F	G	F	P	P	P	P	P	P	P	P	G	G	P	P
Gallic Acid	$C_7H_6O_5$	G	G	G	G	G	G	P	P	G	F	P	P	P	P	G	G	G	F	G	F
Gas Oil	—	G-L	P	G	L	G	L			L	P	G-L				L	P				
Gaz (liquefied petroleum)	$C_5H_{12} - C_{12}H_{26}$	P	P																		
Gelatin	—	G	G					G	G	G	G	G	G	G	G			G	G	G	G
Glucose	$C_6H_{12}O_6$	G	G	G	G	G	G	G		G	F			G	G	G	G	G	G	G	F
Glycerine	$C_3H_5(OH)_3$	G	G	G	L	G	L	G	G	G	G	F	F	G	G	G	G	G	G	G	G
Glycerol	$C_3H_8O_3$	P	P			G	L	G	G	G	G	G	G	G	G			G	G		
Glycolic Acid 30% aq sol	$C_2H_4O_3$	G	G							G	G			G	G	G	G	P	P	G	G
Grape Sugar	—	G	G	G	G	G	G			G	G	G	G	G	G	G	G	G	G	G	G
Greases General	—			G	G	G	G			L	P	G-L				L	P				
Greases Mineral	—	L	P	G	G	G	G			L	P	G	G			L	P				
Ground Nut Oil	—	P	P	G	G	G	G			L	P	G	G			L	P				
Heptane	C_7H_{16}	L	L	G	G	G	G	F	F	G	P	G	G	P	P	P	P	G	G	G	L
Hexadecanol	$C_{16}H_{34}O$	G	G													P	P				
Hexane	C_6H_{14}	L	L	G	F	G	F	G	F	P	P	G	G	P	P			G	G	L	P
Hexyl Alcohol	$C_6H_{14}O$	G				G															
Hydrazine	N_2H_4	P	P					P	P	F	F	P	P	F	F			G	G	G	G
Hydro Fluosilicic Acid	N_2H_6O	P	P	P	P	P	P	F		G	G	P				G	G	G	G	G	G
Hydrobromic Acid	HBr	G	G	P	P	P	P			G	F			P	P			G	G	G	F
Hydrobromic Acid 100% aq sol	HBr	G	G							G	G			P	P	P	P				
Hydrobromic Acid 50% aq sol	HBr	G	G							G	G			P	P	L	P				
Hydrochloric acid 10% aq sol	HCl	G	G	G-L	P	P	P			G	G	L-P		P	P	G	G	G	G	G	G
Hydrochloric acid concentrated	HCl	G	L	P	P	P	P			G	G	P		P	P	L	L	G	G		
Hydrocyanic Acid	HCN	F	F	F	F	F	F			G	G			L	L			G	G		
Hydrocyanic Acid 10% aq sol	HCN	G	G							G	G			P	P	G	G				
Hydrofluoric Acid 4% aq sol	HF	G	G							G	G	L-P	P	P	P	G	G				
Hydrofluoric Acid 40% aq sol	HF	G	G							G	G	P	P	P	P	G	G				
Hydrofluoric Acid 60% aq sol	HF	P	P							G	G-L	P	P	P	P	G	G				
Hydrofluoric Acid concentrated	HF	P	P							G	L	P	P	P	P	G	G	G	G		
Hydrogen	H2	G	G	G	G	G	G			L	L	G	G			G	G				
Hydrogen Bromide	HBr	G														G	G				
Hydrogen Chloride	HCl	G				P	P									G	G				
Hydrogen Fluoride	HF	G				P	P														
Hydrogen Peroxide 3% (10 vol)	H_2O_2	G	G	G-L	P	L-P	P			G	L	G	G	G	G	G	G				
Hydrogen Peroxide 12% (40 vol)	H_2O_2	G	G	L-P	P	L-P	P			G	L			G	G	G	G	G	G		
Hydrogen Peroxide 30% (100 vol)	H_2O_2	G	G	P	P	P	P			G	L-P			G	G	G	L	G	G		

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Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Hydrogen Peroxide 90% +	H_2O_2	G	G	P	P	P	P			G	P			F	F	G	L	G	G		
Hydrogen Phosphide	H_3P	G	G													G	G				
Hydrogen Sulphide < 5%	H_2S	G	G			G	G	G	G	L-P	L-P	L	P	L	L	G	G	G	G		
Hydrogen Sulphide gaseous	H_2S	G	G							L-P	L			L	L						
Hydroquinone	$C_6H_6O_2$	G	F	G				G	G	G	G					G	G	G	G	G	G
Hypochlorous Acid	HClO	L	P													L	P				
Industrial Methylated spirit	–	P	P	G-L	P	G-L	P			L	P	L	P			L	P				
Iodine	–	G	G			P				G	G	P	P			L-P	P			P	P
Iodine (in alcohol)	–	F	F							F	F	L-P	P					G	G		
Iso Octane	C_8H_{18}	P	P					P	P	L	P	G	G					G	G	L	P
Iso Propyl Alcohol	CHJ_3	G	P	G	P	G	P			G	G	L	P			G	G				
Isobutyl Alcohol	$C_4H_{10}O$					G		G	L	L	L	L	P					G	G	L	L
Isocyanate	NCO	P	P	G		G				P	P					P	P				
Isophorone	$C_9H_{14}O$	P	P																		
Isopropyl Acetate	$C_5H_{10}O_2$	P	P					L	L	F	L	P	P	L	L			G	G		
Isopropyl Alcohol	C_3H_8O	G				L										G	G	G	G	G	G
Isopropylic Alcohol	C_3H_8O	G	L			G	L	G	L	G	G	L	P	L	L			G	G	G	G
Jet Fuel	–	P	P	G		G	I	L	P	L	P	L	P	P	P	L	P				
Kerosene (Paraffin Oil)	–	G-L	P	G	G-L	G	G-L			L	P	G	L	P	P	L	P	G	G		
Lactic Acid 10% aq sol	$C_3H_6O_3$	L	F	G	G	L	L			G	G	L-P	P	G	G	G	G	G	G	G	G
Lactic Acid 100% aq sol	$C_3H_6O_3$	P	P	G	G	L-P	P			G	G	P	P	F	F	G	G	G	G	G	G
Lanoline	–	G				G														G	L
Lauric Acid	$C_{12}H_{24}O_2$	G																			
Lauryl Alcohol	$C_{12}H_{26}O$	G	G			G															
Lead Acetate	$Pb(C_2H_3O_2)_2$	G	G			G				G	G	G-L		G	G	G	G			G	G
Lead Arsenate	$As_4O_{16}Pb_3$	G	G			G		G	L	G		G-L		G	G	G	G	G	G	G	
Lead Nitrate	$Pb(NO_3)_2$	G	G			G				G	G			F	F	G	G				
Lead Tetraethyl	$C_8H_{20}Pb$	G		G		G										G-L	P				
Lightning Gas – Town Gas	–					G		G		G		G		G	G			G	G		
Lime	–	G	G							G	G	G	L	G	G			G	G	G	G
Linoleic Acid	$C_{18}H_{32}O_2$	G	G							G	G			F	F						
Linseed Cake	–			G	G	G	G														
Linseed Oil	–	L	P	G	G	G				L	P	G	G			L	P			L	P
Lubricating Oil	–	P	P					G	G			G	G					G	G		
Magnesia	–							G	G	G	G	G	G					G	G		P
Magnesium Carbonate	$MgCO_3$	G	G			G				F	F			G	G	G	G	G	G	G	G
Magnesium Chloride	$MgCl_2$	G	G	G	G	G				G	G	G-L				G	G	G	G	G	G
Magnesium Hydroxide	$Mg(HO)_2$	G	G			G				G	G	L		G	G	G	G	G	G	G	G
Magnesium Nitrate	$Mg(NO_3)_2$	G	G			G				G	G					G	G	G	G	G	G
Magnesium Sulphate	$MgSO_4$	G	G			G		G	L	G	G	G	L	G	G	G	G	G	G	G	G
Maleic Acid 25% aq sol	$C_4H_4O_4$	G	G							G	G					G	G				
Maleic Acid 50% aq sol	$C_4H_4O_4$	G	G							G	G					G	G				
Maleic Acid concentrated	$C_4H_4O_4$	L	P							G	G					G	G				
Malic Acid	$C_4H_6O_4$	G	G							F	F			F	F			G	G		
Manganese Sulphate	$MnSO_4$	F	F							G	G			G	G	G	G	G	G		
Mercuric Chloride	$HgCl_2$	P	P			G		G	L	G	G	G	L	G	G	G	G	G	G	L	L
Mercuric Cyanide	$Hg(CN)_2$	G	G			G				G	G			G	G	G	G			G	G
Mercurous Nitrate	$Hg(NO_3)_2$	G	G			G				G	G					G	G	G	G	G	G
Mercury	Hg	G	G	G	G	G	G			G	G	G	G			G	G	G	G	G	G
Mesityl Oxide	$C_6H_{10}O$	P	P																		
Metallic Soaps (water sol)	–	G														G	G				
Methane	CH_4	G	G	G	G	G	G	G	G	G	G	G-L	L	P	P			G	G		
Methyl Acetate	$C_3H_6O_2$	P	P	G	G	G	G			P	P	L-P	P	P	P	P	P			P	P
Methyl Acrylate	$C_4H_6O_2$							G	L	G	G			P	P					G	G
Methyl Alcohol (Methanol)	CH_4O	G	L							G	G			G	G			G	G		
Methyl Alcohol 10% aq sol	CH_4O	G	L	G	L	G	L	G		G	G	L-P	P	G	G	G	L	G	G	G	G
Methyl Amyl	–	G	L			G	L	G	L	G	G	L	P	L	L			G	G	G	G
Methyl Bromide	CH_3Br	P	P	G-P	P	G	P									P	P				
Methyl Chloride	CH_3Cl	P	P	G-P	P	G	P	P	P	P	P	P	P	P	P	P	P	G	G	P	P
Methyl Ethyl Ketone	C_4H_8O	P	P	G	L	G	L	L	P	P	P	L-P	P	P	P	L-P	P	G	G	G	G
Methyl Isobutyl Ketone	$C_6H_{12}O$	P	P	G	L	G	L	L	P	F	F	P	P	P	P	L-P	P	G	G		
Methyl Methacrylate	$C_5H_8O_2$	P	P					L	P	G	G	P	P	F	F					G	G
Methyl Sulphate	CH_4SO_4	P	P	G-L		G	L														
Methylated Spirit	–	P	P			L	P			L	P	G-L	P			G-L	L-P			G	
Methylene Chloride	CH_2Cl_2	P	P			P	P			P	P	L-P	P	G	G	P	P	G	G	L-P	P
Milk	–	G		G	G	G				G	G					G	G			G	G
Mineral Oils	–	L	P	G	G	G	G	G	G	L	P	G	L	L	L	L-P	P	G	G	G	G
Mixed Acids (sulph/nitric)	–		P																		
Molasses	–	G	G											G	G	G	G				
Monochlorbenzene	C_6H_5Cl	P	P							P	P	P	P	P	P	P	P	L	L	P	P
Mustard	–	F	F	G	G	G	G			G	G	G	G			G	G				
Naptha	–	P	P	G	G-L	G	L			P	P	L	P			P	P	G	G	P	P
Napthalene	–	P	P	G	G	G	G	L	P	L-P	L-P	L	P	P	P	L-P	P	F	F	L	L
Naphtha (Light Oil)	–	P	P			G	G	G	G	G	P							G	G		
Natural Gas	–	G	G	G	G	G	G	G	G	G		G-L					G	G			
Nickel Chloride	$NiCl_2$	G	G			G	G	G	L	G	G	G	L	G	G	G	G	G	G	G	G
Nickel Nitrate	$Ni(NO_3)_2$	G	G			G	G			G	G					G	G	G	G	G	G
Nickel Sulphate/salts	$NiSO_4$	G	G			G	G	G	L	G	G	G	L	G	G	G	G	G	G	G	G
Nicotine	$C_{10}H_{14}N_2$															G	G				
Nicotinic Acid	$C_6H_5NO_2$															G	G				
Nitric Acid 5% aq sol	HNO_3	G	G	P	P	P	P			G	G	P	P			G	G	G	G	G	G
Nitric Acid 10% aq sol	HNO_3	G	L	P	P	P	P			G	G	P	P			G	G	G	G	G	G

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Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Nitric Acid 25% aq sol	HNO_3	G	L	P	P	P	P			G	G	P	P			G	G	G	G	G	G
Nitric Acid 50% aq sol	HNO_3	G	L	P	P	P	P			P	P	P	P			L	P	G	G	L	L
Nitric Acid 70% aq sol	HNO_3	L	P	P	P	P	P			P	P	P	P			P	P	G	G	P	P
Nitric Acid 95% aq sol	HNO_3	P	P	P	P	P	P			P	P	P	P			P	P	G	G	P	P
Nitrobenzene	$C_6H_5NO_2$	P	P			L	L			P	P			P	P	P	P			L	L
Nitrogen	N_2	G	G	G	G	G	G	P	P	G	G	G	G			G	G	G	G	G	G
Nitrogen Peroxide	NO_2							G	L					L	L			G	G		
Nitropropane	$C_3H_7NO_2$	P	P																		
Nitrous Fumes moist	—	P	P																		
Nitrous Oxide Gas	N_2O	G	L							F	F										
Nonyl Alcohol	$C_9H_{20}O$	G	G			G	G														
Octane	C_8H_{18}			G	G-L	G	G					G	G							L-P	P
Octyl Alcohol	C_8H_{18}	G	G			G	G			G	G										
Oil, Animal	—	G-L	P							L	P	G-L	G-L			L	P				
Oil, ASTM Oil No 1	—	P	P			G	G	G	G			G	G-L	G	G			G	G		
Oil, ASTM Oil No 2	—	P	P					G	G	G	G	G	L								
Oil, ASTM Oil No 3	—	P	P					G	L			G	G-L					G	G		
Oil, ASTM Ref Fuel A	—											G	G-L					G	G		
Oil, ASTM Ref Fuel B	—											G-L	L					G	G		
Oil, Etheral	—	P	P																		
Oil, Hydraulic	—																	G	G		
Oil, Hydraulic – petroleum base	—	P	P	G	G	G	G					G	G								
Oil, Hydraulic – synthetic base	—	P	P	G	G	G	G					P	P								
Oil, Mineral	—	G-L	P	G	G	G	G			P	P	G	G-L	F	F	L	P				
Oil, Vegetable	—	G-L	P	G	G	G	G			L	P	G	G-L			L	P				
Oleic Acid	$C_{18}H_{34}O_2$	G	L	G	G	G	G	G	L	L	P	L	P	P	P	P	P	G	G	G	L
Ortho-dichlorobenzene	$C_6H_4Cl_2$	P	P			G	G	P	P			P	P	P	P			G	G		
Oxalic Acid 10% aq sol	$C_2H_2O_{4\,x}\,2H_2O$	G	G	G	L	G	L			G	G	L	L			G	G	G	G	G	G
Oxygen	O_2	G	G	G	F	G	G			L	P	G	G			G	G			G	G
Ozone	O_3	G	G	L-P	P	P				P	P	G	G	G	G	P	P	G	G	L	P
Palmitic Acid	$C_{16}H_{32}O_2$	G	G													G	L				
Paradichlorobenzene	$C_6H_4Cl_2$	P	P			L	P	P	P	P	P	G	G	P	P			G	G	P	P
Paraformaldehyde	$OH(CH_2O)nH(n=8\text{-}100)$					G	G					P	P	G	G			G	G		
Pentane	C_5H_{12}	G	G							P	P			P	P						
Peracetic Acid	$C_2H_4O_3$	G	G							F	F			P	P						
Perchloric Acid 10% aq sol	$HClO_4$	P	P							G	G			P	P	G	G	G	G		
Perchloroethylene	C_2Cl_4	P	P	L	P	L	P			P	P	P	P	P	P	P	P				
Petrol	—	P	P	G	G-L	G	G			P	P	G	G	P	P	P	P			G-L	L-P
Petrol / Benzene mix (A)	—	P	P	G	G-L	G	L			P	P	G-L	L			P	P			G-L	L-P
Petroleum Ether (A)	—	P	P	G	G-L	G	L			P	P	G-L	L			P	P			L	P
Phenol	C_6H_5O	P	P			P	P	P	P	L	L	P	P	G	G			G	G	L	L
Phenols/Carbolic acid	—	P	P	P	P	P	P			P	P					P	P			G	G
Phenylcarbinol	C_7H_8O	P	P			P	P			P	P	P	P			P	P			P	
Phenylhydrazine	$C_6H_8N_2$	P	P																		
Phosgene gas	CCl_2O															G-L	P				
Phosgene Liquid	CCl_2O																				
Phosphates	—	G	G			G	G														
Phosphoric Acid	H_3PO_4													P	P			G	G		
Phosphoric Acid 20% aq sol	H_3PO_4	G	G	G-L	P	P	P			G	G	L-P	P	P	P	G	G	G	G	G	G
Phosphoric Acid 30% aq sol	H_3PO_4	G	G	G-L	P	P	P			G	G	P	P	P	P	G	G	G	G	G	G
Phosphoric Acid 50% aq sol	H_3PO_4	G	G	G-L	P	P	P			G	G	P	P	P	P	G	G	G	G	G	G
Phosphoric Acid 95% aq sol	H_3PO_4	G	G	P	P	P	P			L	P	P	P	P	P	G	L	G	G	G	L
Phosphoric Anhydride	$O_{10}P_4$	G	G			P	P			G	L										
Phosphorus	H_3PO_4					P	P			G	P										
Phosphorus Pentoxide	$O_{10}P_4$	G	G			P	P			G	G					G	G			G	G
Phosphorus Trichloride	PCl_3	P	P			P	P			G	G					G	G				
Phthalic Anhydride	$C_8H_4O_3$	G	G																		
Picric Acid	$C_6H_3N_3O_7$							G	L	G	G	P	P	G	G						
Picric Acid 1% aq sol	$C_6H_3N_3O_7$	G	G	L	P	L	P			G	G					L	L				
Picric Acid 10% w/w in alcohol	$C_6H_3N_3O_7$	G	G	L												P	P				
Polyester Emulsions	—	P	P	G	G	G	G														
Polyglycol Ethers	—	P	P															G	G		
Polystyrene Emulsions	—	P	P	G	G	G	G														
Potassium Acid Sulphate	$KHSO_4$	G	G													G	G				
Potassium Antimonate	$KSbO_3$	G	G													G	G				
Potassium Bicarbonate	$KHCO_3$	G	G							G	G	L		G	G	G	G	G	G		
Potassium Bichromate	K_2Cr2O_7	G	G									G	G								
Potassium Bisulphate	$KHSO_4$	G	G													G	G				
Potassium Borate	$K_2B_4O_7$	G	G					G	G	G-L	G-L			G	G	G	G	G	G	G	
Potassium Bromate	$KBrO_3$	G	G													G	G				
Potassium Bromide	KBr	G	G			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Potassium Bromide 10% aq sol	KBr	G	G			G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Potassium Carbonate	K_2CO_3	G	G			G	L	G	L	G	G	P	P	G	G	G	G	G	G	G	G
Potassium Chlorate	$KClO_3$	G	G			G-L	L			G	G			F	F	G	G			G	G
Potassium Chlorate 5% aq sol	$KClO_3$	G	G			G	G			G	G			F	F	G	G			G	G
Potassium Chloride	KCl	G	G			G	G	G	L	G	G	G	L	G	G	G	G	G	G	G	G
Potassium Chromate	K_2CrO_4	G	G							G-L	G-L					G	G			G	G
Potassium Cuprocyanide	K_2CrO_4	G	G													G	G				
Potassium Cyanide	KCN	P	P							G	G					G	G			G	G
Potassium Dichromate	$K_2Cr_2O_7$	G	G							G	G	G	G	G	G	G	G			G	G
Potassium Ferricyanide	$C_6N_6FeK_3$	G	G							G	G					G	G				
Potassium Ferrocyanide	$C_6N_6FeK_4$	G	G							G	G					G	G				

G = Good Resistance L = Limited Resistance
F = Fair Resistance P = Poor Resistance

Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Potassium Fluoride	KF	G	G													G	G				
Potassium Hydroxide 1 % aq sol	KHO	G	G	G	P	G	P			G	G			L	L	G	G				
Potassium Hydroxide 10 % aq sol	KHO	G	G	G	P	G	P			G	G			L	L	G	G				
Potassium Hydroxide concentrated	KHO	G	P	P	P	G-L	P			G	G			L	L	G	L				
Potassium Hypochlorite	KClO	G	G							F	F					G	G-L				
Potassium Iodine	KI	G	G							F	F										
Potassium Nitrate	KNO_3	G	G							G	G			G	G						
Potassium Nitrate 10 % aq sol	KNO_3	G	G	G-L	P	G	P			G	G	G-L	L			G	G			G	G
Potassium Perborate	BHO_3	G	G							G	G					G	G				
Potassium Perchlorate	$KClO_4$	G	G													G-L	G-L				
Potassium Permanganate	$KMnO_4$	G	G	P	P	P	P			G	G	L-P	P			P	P			G	G
Potassium Persulphate	$K_2S_2O_8$	G	G													G	G			G	G
Potassium Phosphate	KH_2PO_4	G	G													G	G				
Potassium Sulphate	K_2SO_4	G	G							G	G			G	G						
Potassium Sulphate 10 % aq sol	K_2SO_4	G	G	G	G	G	G			G	G	G	G	G	G	G	G			G	G
Potassium Sulphide	K_2S	G	G							G	G			G	G	G	G	G	G		
Potassium Thiosulphate	$H_2S_2O_3K_2$	G	G													G	G				
Propane	C_3H_8	G	G	G	G	G	G			F	F	G-L		P	P					G	G-L
Propargyl Alcohol	C_3H_4O	G	G			G	G									G	G				
Propylene	$C_3H_8O_2$	F	F					G	G					P	P			G	G		
Propylene dichloride	$C_3H_6Cl_2$	P	P													P	P				
Propylene Glycol	$C_3H_8O_2$	G	G													G	G	G	G		
Propylene Oxide	C_3H_6O	P	P																		
Pure Acetic Acid	$C_2H_4O_2$	P	P			P	P	P	P	P	P	P	P					G	G	P	P
Pyridine	C_5H_5N	P	P	L	P	L	P			F	F	P	P	P	P						
Saccharase	—	G	G																		
Salicylic Acid	$C_7H_6O_3$	F	F			G	G			F	F					G	G				
Sea Water	—	G	G	G	G	G	G			G	G	G	G	GG		G	G			G	G
Seed Oil	—									P	P	L		G	G			G	G		
Selenic Acid	—															G	G				
Silicone Oil	—	P	P					G	G	G	G	G	G	G	G			G	G		
Silver Acetate	$C_2H_3AgO_2$	G	G			G	G													G	G
Silver Cyanide	CAgN	G	G			G	G									G	G			G	G
Silver Nitrate	$AgNO_3$	G	G			G	G			G	G	L	L			G	G	G	G	G	G
Soap sol. 10 % aq sol	—	G	G	G	G	G	G			G	G	G	G			G	G			G	G
Soda water	—	G	G	G	G	G	G			G	G	G	G			G	G				
Sodium Acetate	$C_2H_3NaO_2$	G	G							G	G			P	P	G	G	G	G		
Sodium Acid Sulphate	$C_2H_3NaO_2$	G	G													G	G				
Sodium Aluminate	$NaAlO_2$	G	G							G	G			P	P	G	G				
Sodium Antimonate	NaO_3Sb	G	G													G	G				
Sodium Benzoate	$C_7H_5NaO_2$	G	P							G	G					G	G				
Sodium Bicarbonate	$NaHCO_3$	G	G			G	G			G	G	G	F	G	G	G	G	G	G	G	G
Sodium Bisulphate	$NaHSO_4$	G	G	G	G	G	G	L	L	G	G	G	L	G	G	G	L	G	G	G	L
Sodium Bisulphate 10 % aq sol.	$NaHSO_5$	G	G							G	G			G	G						
Sodium Borate	$Na_2B_4O_7$	G	G													G	G				
Sodium Bromide	NaBr	G	G			G				G	G					G	G	G	G		
Sodium Bromide 10% aq sol	NaBr	G	G							G	G										
Sodium Carbonate	Na_2CO_3	G	G	G	G-L	G	L			G	G	G-L	L	G	G	G	G			G	G
Sodium Carbonate 10% aq sol	Na_2CO_3	G	G	G	G-L	G	L			G	G	G-L	L	G	G	G	G			G	G
Sodium Chlorate	$NaClO_3$	G	G			L	P			G	G	G-L	L	L	L	G	G			G	G
Sodium Chloride	NaCl	G	G	G	G	G	G			G	G	G	G	F	F	G	G	G	G	G	G
Sodium Cyanide	CNNa	G	G							G	G			G	G	G	G				
Sodium Ferricyanide	$C_{18}H_{29}NaSO_3$	G	G													G	G				
Sodium Ferrocyanide	$C_6FeNa_4N_6$	G	G							G	G					G	G				
Sodium Fluoride	NaF	G	G							G	G					G	G	G	G		
Sodium Fluoride Aluminate 10%	—	G	G							G	G	L	L	L	L			G	G		
Sodium Hydroxide 1% aq sol	NaOH	G	L	G	P	G	L			G	G	G-L		G	G	G	G	G	G	G	G
Sodium Hydroxide 10% aq sol	NaOH	G	L	G	P	G	L			G	G	L		G	G	G	G	G	G	G	G
Sodium Hydroxide 40% aq sol	NaOH	G	P	G	P	G	P			G	G	P	P	G	G	G	G	G	G	G	G
Sodium Hydroxide concentrated	NaOH	G	P			P	P			G	G	P	P	G	G	G	L	G	G	G	G
Sodium Hypochlorite 15%	NaClO	G	L			P	P			G	G	L				G	L	G	G	G-L	G-L
Sodium Hypochlorite 30%	NaClO	G	P			P	P			L		P	P	P	P			G	G	L	
Sodium Hyposulphate	NaClO	G	G																		
Sodium Metaphosphate	$Na_6P_6O_{18}$	G	G							G	G			G	G	G	G				
Sodium Nitrate 10% aq sol	$NaNO_3$	G	G			G	G			G	G	G-L	L	P	P	G	G			G	G
Sodium Nitrite	$NaNO_2$	G	G			P	P							P	P	G	G	G	G	G	G
Sodium Perborate	$NaBO_3{\cdot}nH_2O$	G	G			L-P	P			G	G			F	F	G	G			G	G
Sodium Peroxide	Na_2O_2	G	G							G	G			P	P	G	G				
Sodium Phosphate	Na_3PO_4	G	G			G	G									G	G	G	G	G	G
Sodium Phosphate 10% aq sol	Na_3PO_4	G	G			G	G									G	G	G	G	G	G
Sodium Silicate	Na_2SiO_3	G	G			G	G	G	L	G	G	L	P	G	G	G	G	G	G	G	G
Sodium Sulphate	Na_2SO_4	G	G			G	G	G	L	G	G	G	L	G	G	G	G	G	G	G	G
Sodium Sulphate 10% aq sol	Na_2SO_5	G	G			G	G			G	G			G	G						
Sodium Sulphide 25% aq sol	Na_2S	G	G	G-L	L	G-L	L			G	G	G-L	L	G	G	G	G			G	G
Sodium Sulphide concentrated	Na_2S	G	G	G-L	L					G	G			G	G	G	G			G	G
Sodium Sulphite	Na_2SO_3	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Sodium Sulphite 10% aq sol	Na_2SO_4	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Sodium Tetraborate	$Na_2B_4O_7{\cdot}10H_2O$	G	G											G	G						
Sodium Thiosulphate	$Na_2S_2O_3$	G	G			G	G			G	G			G	G	G	G			G	G
Soft Soap	—	G	G													G	G				
Solvent Naptha	—	L	P	G	G-L	G	G-L			L	P	G-L	L			L	P				
Stannic Chloride	$SnCl_4$	G	G							G	G			F	F	G	G				

G = Good Resistance L = Limited Resistance
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Chemical	Chemical Formula	Flex PVC		PA11		PA12		TPE		LDPE		TPU		Silicon		EVA		PTFE		HDPE	
		@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 60°c	@ 20°c	@ 50°c	@ 20°c	@ 60°c
Stannous Chloride	$SnCl_2$	G	G													G	G				
Starch	—	G	G			G				G	G					G	G				
Steam	H_2O	P	P	P	P	P	P			P	P					P	P				
Stearic Acid	$C_{18}H_{36}O_2$	G	G	G	G	G	G	G	L	G	G			L	L	G	G	G	G	G	G
Stearin (also Stearine)	$C_{57}H_{110}O$			G	G	G	G			G	G					G	G				
Styrene	C_8H_8	P	P	G	G	G	G					L	L								
Sucrose	—	G	G	G	G	G	G			G	G	G	G	G	G	G	G			G	G
Sulphamic Acid	H_2NSO_3H	P	P	P	P	P	P														
Sulfur Chloride	SCl_2	P	P					L	L	P	P	G	L	P	P			G	G	P	P
Sulphur Colloidal	S			G	G	G				G	G					G	G			G	
Sulphur Dioxide dry	SO_2	G	G	G	G	P	P			G	G	L		F	F	G	G			G	
Sulphur Dioxide liquid	SO_2	L	P	G	G	P	P			P	P	P	P	F	F	P	P				
Sulphur Dioxide moist	SO_2	L	P	G	G	P	P			G	P	P	P	F	F	G	L				
Sulphur Trioxide	SO_3	F-L	L	L-P	P	L-P	P	P	P	P	P	L-P	P	P	P	F-L	P	G	G	P	P
Sulphuric Acid 10% aq sol	H_2SO_4	G	G	G-L	P	L	P			G	G	G	G	F	F	G	G	G	G	G	G
Sulphuric Acid 20% aq sol	H_2SO_4	G	G	L	P	P	P			G	G	L-P	P	P	P	G	G			G	G
Sulphuric Acid 30% aq sol	H_2SO_4	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 40% aq sol	H_2SO_4	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 45% aq sol	H_2SO_4	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 50% aq sol	H_2SO_4	G	L	P	P	P	P			G	G	P	P	P	P	G	G	G	G	G	G
Sulphuric Acid 55% aq sol	H_2SO_4	L	L	P	P	P	P			G-L	G-L	P	P	P	P	G	G			G	G
Sulphuric Acid 60% aq sol	H_2SO_4	L	L	P	P	P	P			G-L	L-P	P	P	P	P	G	G			G	G
Sulphuric Acid 70% aq sol	H_2SO_4	L	P	P	P	P	P			L	P	P	P	P	P	L	L			G	G
Sulphuric Acid 80% aq sol	H_2SO_4	L	P	P	P	P	P			L	P	P	P	P	P	L-P	P			G	G
Sulphuric Acid 90% aq sol	H_2SO_4	P	P	P	P	P	P			P	P	P	P	P	P	P	P			G	G
Sulphuric Acid 95% aq sol	H_2SO_4	P	P	P	P	P	P			P	P	P	P	P	P	P	P			G	L
Sulphuric Acid 98% aq sol	H_2SO_4	P	P	P	P	P	P			P	P	P	P	P	P	P	P	G	G	G-L	L
Sulphuric Acid fuming	H_2SO_4	P	P	P	P	P	P			P	P	P	P	P	P	P	P			P	P
Surface Active Agents all concs. (emulsifiers)	—	G	G													G	G				
Tallow	—	G	G			G	G			G	G					G	P				
Tannic Acid	$C_{76}H_{52}O_{46}$	G	G							G	G			G	G	G	G	G	G		
Tanning Extracts	—	G	G							G	G					G	G				
Tartaric Acid 10% aq sol	$C_4H_6O_6$	G	G	G	G	G	G			G	G	L	L	G	G	G	G			G	G
Tetra Ethyl Lead	$C_8H_{20}Pb$	G	G			G	G			G	P					G	P			G	G
Tetrahydrofuran	C_4H_8O	P	P			G	G			P	P	P	P	P	P	P	P			L	P
Tetrahydronapthalene	$C_{10}H_{12}$	P	P							P	P			P	P	P	P			G	P
Tetralin	$C_{10}H_{12}$	P	P			G	G														
Thionyl Chloride	$SOCl_2$					P	P														
Thiosulphate Sodium	$Na_2S_2O_3$	G	G					G	P	G	G	L	L	G	G			G	G	G	G
Tin Chloride	$SnCl_2$	G	G					P	P	G	G	G	L	P	P			G	G	G	G
Toluene	C_7H_8	P	P	G	L	G	L			P	P	P	P	P	P	P	P	G	G	L	P
Transformer Oil	—	G	P	G	G	G	G			L	P	L-P	P			P	P			P	P
Tributyl Phosphate	$C_{12}H_{27}O_4P$	P	P	G	G	G	G			L	P	L	L			L	P			L	P
Trichloracetic Acid	$C_2HCl_3O_2$	P	P																		
Trichlorobenzene	$C_6H_3Cl_3$	P	P													P	P				
Trichloroethane	$C_2H_3Cl_3$	P	P	L-P	P	L	P					P	P			P	P				
Trichloroethylene	C_2HCl_3	P	P	L-P	P	L	P			P	P	P	P			P	P	G	G	L	P
Tricresyl Phosphate	$C_7H_{15}NO_2$	P	P	G	G	G	G			P	P	L-P	P			P	P			G	G
Triethanolamine	$C_6H_{15}NO_3$	G	G							G	P					P	P				
Triethylene Glycol	$C_6H_{14}O_4$	G	G															G	G		
Trisodium Phosphate	Na_3PO_4	G	G	G	G	G	G			G	G	L-P	P	G	G	P	P				
Turpentine	—	L	P			G	G-L			G	P	G-L	L	P	P	P	P	G	G	L	P
Turpent Petrol	—	P	P			G	G	L	P	L	P	L	P	P	P			G	G	L	P
Turps Substitute	—	L	P	G	G-L	G	G-L			L	P	G	L			L	P				
Unleaded Gas	—	P	P			G	G	G	L	G	L	G	L					G	G	L	P
Urea – 20% aq sol	CH_4N_2O	G		G	L	G	L			G	G	G-L		G	G	G	G			G	G
Urea Formaldehyde Sol	CH_4N_2O	P	P	G		G															
Uric Acid (dilute)	$C_5H_4N_4O_3$	G	G	G	G	G	G			G	G					G	G				
Vegetable Oils	—	G	P	G	G	G	G			G-P	P	G				P	P			G	L
Vinegar	$C_2H_4O_2$	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Vinyl Acetate	$C_4H_6O_2$	P	P																		
Vinyl Chloride	C_2H_3Cl	P	P							G	G	P	P	P	P			G	G	G	G
Water	H_2O	G	G	G	G	G	G			G	G	G		F	F	G	G			G	G
Wetting Agents all concs.	—	G	G													G	G				
White Spirit	—	L	P	G	G-L	G	G-L			L	P	G	L			L	P				
Wines and Spirits	—	G	L	G	G	G-L	L			G	G	G	G			G	G			G	G
Xylene	C_8H_{10}	P	P	G	L	G	L			G	L	P	P			P	P	G	G	L	P
Xylenol	$C_8H_{10}O$	P	P									P	P								
Yeast	—	G	G							G	G					G	G				
Zinc Ammonium Carbonate	C_4NO_3ZN	G	G																	G	G
Zinc Carbonate	$ZnCO_3$	G	G							G	G									G	G
Zinc Chloride 10% aq sol	$ZnCl_2$	G	G	G	L-P	G	G			G	G	G-L	L	G	G	G	G	G	G	G	G
Zinc Oxide	ZnO	G	G							G	G					G	G	G	G	G	G
Zinc Sulphate	$ZnSO_4$	G	G					G	L	G	G	G	L	G	G			G	G	G	G
Zinc Sulphide	$ZnSO_4$	G	G							G	G					G	G	G	G	G	G

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R	Reinforced Garden Hose	GH Series	21
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S	Sanitation Hose	MSH Series	63
	Semi-Rigid Imperial Nylon Tube	NRM / INR Series	38
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