



Design | Develop | Deliver

Copely



HOSE & TUBING 2026

copely.com





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
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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

	<p>Tube</p> <p>A tube is an unreinforced pipe made from a single material.</p>		<p>Hose</p> <p>A hose is a tube that is reinforced for strength, durability, or resistance to crushing.</p>
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<p>PVC</p> <p>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.</p>	<p>PVC (Anti-static)</p> <p>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.</p>	<p>Nylon (PA12)</p> <p>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.</p>	<p>Polyurethane</p> <p>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.</p>
<p>LDPE</p> <p>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.</p>	<p>HDPE</p> <p>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.</p>	<p>PP</p> <p>Polypropylene is a good strong all round material widely used in our cores and tubes.</p>	<p>TPE</p> <p>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.</p>
<p>PTFE</p> <p>Polytetrafluoroethylene (PTFE) is a synthetic fluoropolymer 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.</p>	<p>TPV</p> <p>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.</p>	<p>PVDF</p> <p>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.</p>	

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.

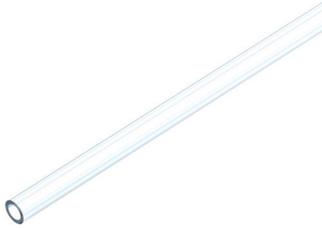
In August 2013, Copely acquired the trade and assets of Emplas Limited and have now combined the two businesses. For over 30 years Emplas produced quality UK made garden hose products to major retail groups along with precision PVC profiles for all manner of applications.

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.

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Glass Clear Reinforced PVC

CR Series

Glass Clear is an EC compliant, low toxic PVC hose.

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PVK Glass Clear PVC Hose

PVK Series

An economical, light duty hose ideal for multi-purpose use.

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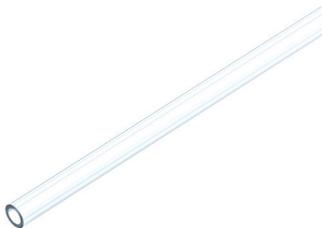


Polyurethane Reinforced Hose

CPR (RPU) Series

A polyurethane hose with outstanding elasticity and abrasion resistance.

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Polyurethane Unreinforced Hose

CUP (PU) Series

Non-phthalate ether polyurethane material, suitable for food contact applications and has good UV resistance.

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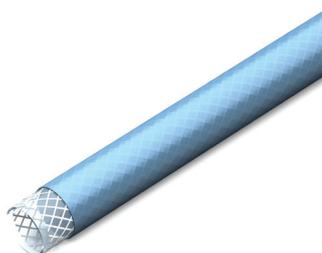


Multi-Purpose Reinforced PVC Hose

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.

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Rubber Water Hose

RWH Series

A black heat, ozone and weather-resistant EPDM rubber hose.

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Industrial Hose

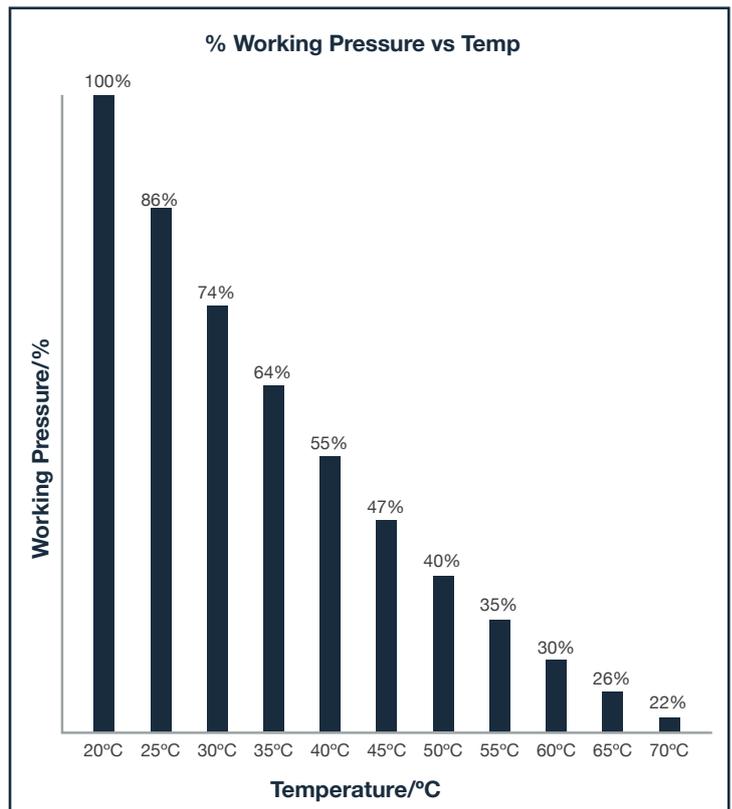
Burst Pressures and Working Temperatures

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.

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.

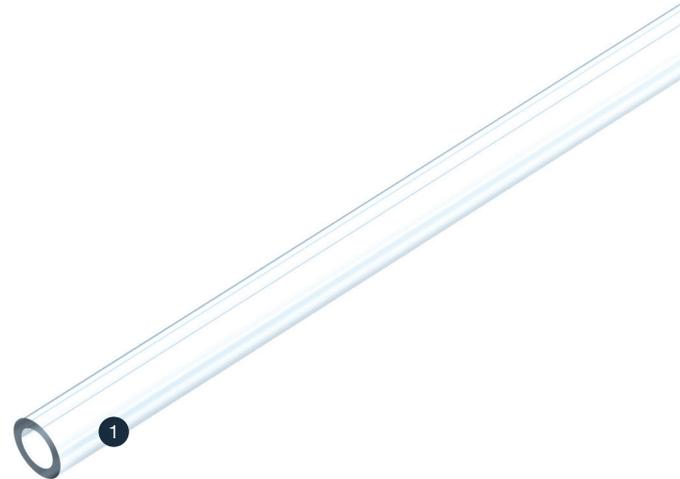
Sizes:

- 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



1. Phthalate free PVC



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



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.

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.

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

Copely



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



Applications:

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



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.

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.

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



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



Applications:

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



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.

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.

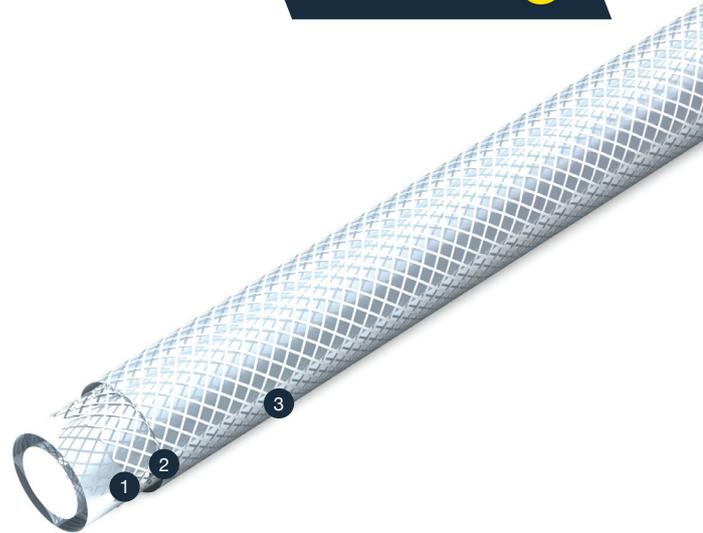
Sizes:

- 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



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



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.

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

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



1. Polyether based thermoplastic polyurethane



Applications:

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



Product Ref	Internal Diameter	External Diameter	Weight per Metre	Bend Radius
CUP05/8	5 mm	8 mm	0.034 Kg	17 mm
CUP06/9	6 mm	9 mm	0.040 Kg	22 mm
CUP06/12	6 mm	12 mm	0.096 Kg	19 mm
CUP08/11	8 mm	11 mm	0.050 Kg	32 mm
CUP08/14	8 mm	14 mm	0.117 Kg	26 mm
CUP10/16	10 mm	16 mm	0.138 Kg	34 mm
CUP13/19	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.

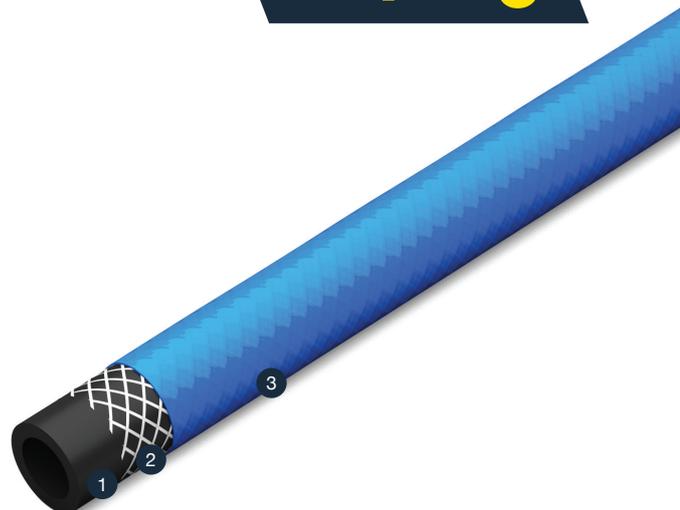
Sizes:

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

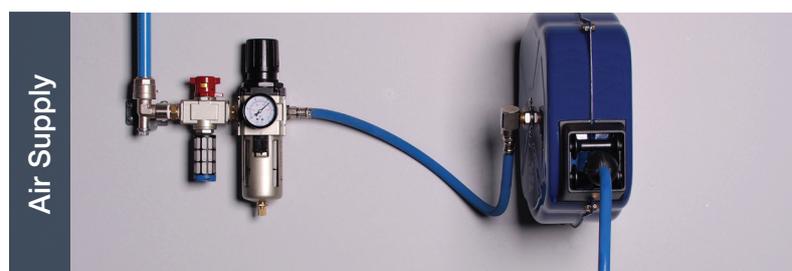
Colours:

- 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.

Key Features:

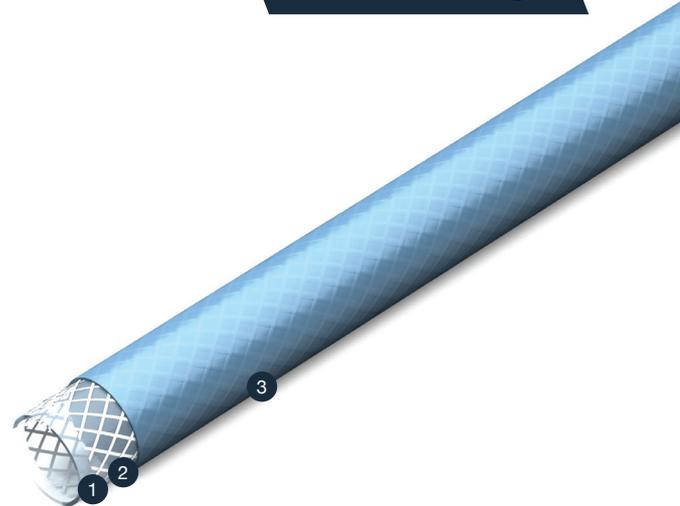
- Exceptional flexibility and memory for maximum air flow.
- Ultra lightweight for ease of use.
- Effective oil resistance.
- Superior kink-resistance.
- Cadmium-free.
- Silicone-free.
- RoHS 3 compliant.
- Distinctive metallic blue finish.
- Service temperature -15°C – +60°C.
- Conforms to ISO 5774.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

Sizes:

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

Colours:

- Metallic blue



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



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.

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



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



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.

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



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



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 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.

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

Copely



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



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

Copely



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.

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.

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



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



Applications:

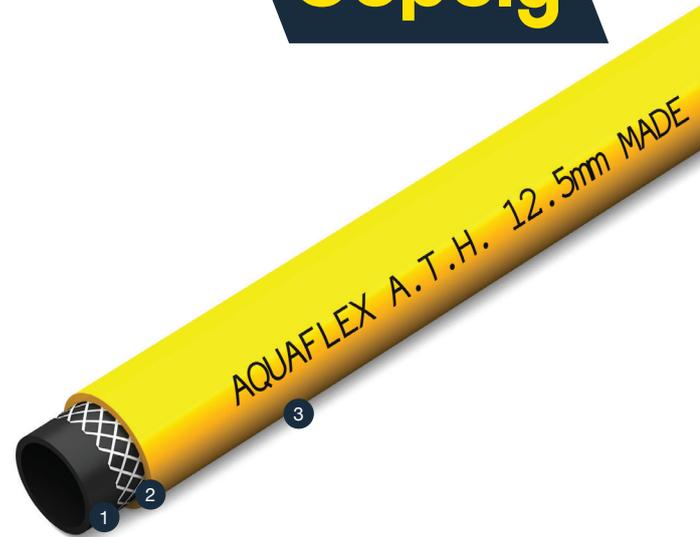
- Watering
- Agriculture – Irrigation
- Industrial use
- Horticulture

					
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



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.

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

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

Colours:

- Yellow



Applications:

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

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 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.



Copely



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



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.

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 $1 \times 10^4 \Omega/\text{m}$ per metre – $1 \times 10^6 \Omega/\text{m}$.
- 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 $54^\circ 44'$ (54.73°) creates an effective and balanced pressure hose.
- Service temperature -15°C to -60°C .
- 4:1 safety factor.
- RoHS 3 compliant.

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

Copely



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



Applications:

- Pneumatic tools and equipment
- Electronics industry



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 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

Copely



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:

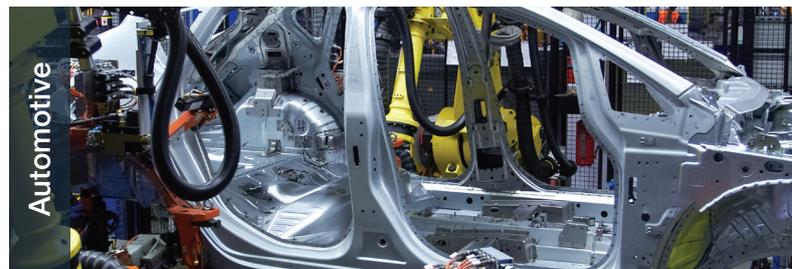
- 10 mm, 12.5 mm and 19 mm available from stock in 50 m coils

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:

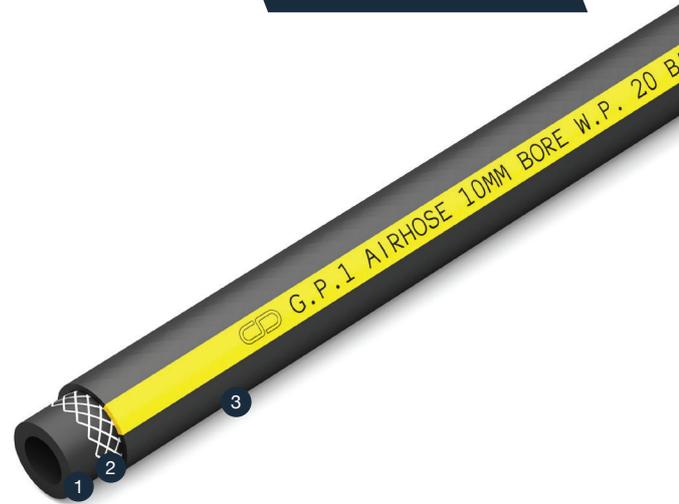
- A universal performer suitable for conveying many chemicals, solvents, fuels, oils, greases, compressed air and water.
- PVC Nitrile blend provides excellent abrasion.
- Clean, flexible and user-friendly.
- Reduced Plasticiser migration.
- High visibility stripe.
- Excellent resistance to UV / Ozone.
- 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:

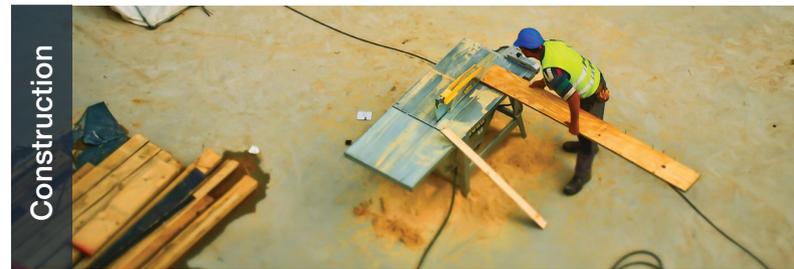
- 6 mm – 25 mm ID available from stock in 30 m coils

Colours:

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



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



Applications:

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



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
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



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



Copely



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.

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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.

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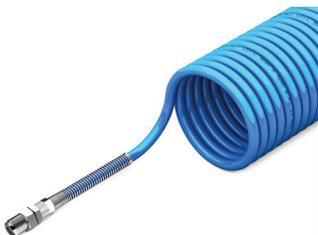


WeldSpatter Tube

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

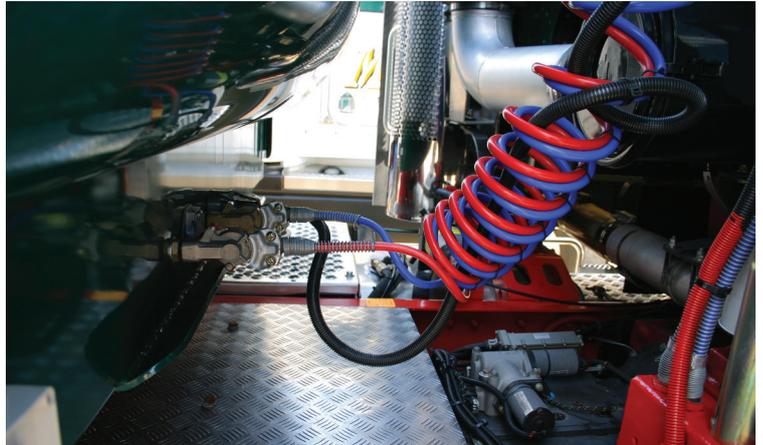
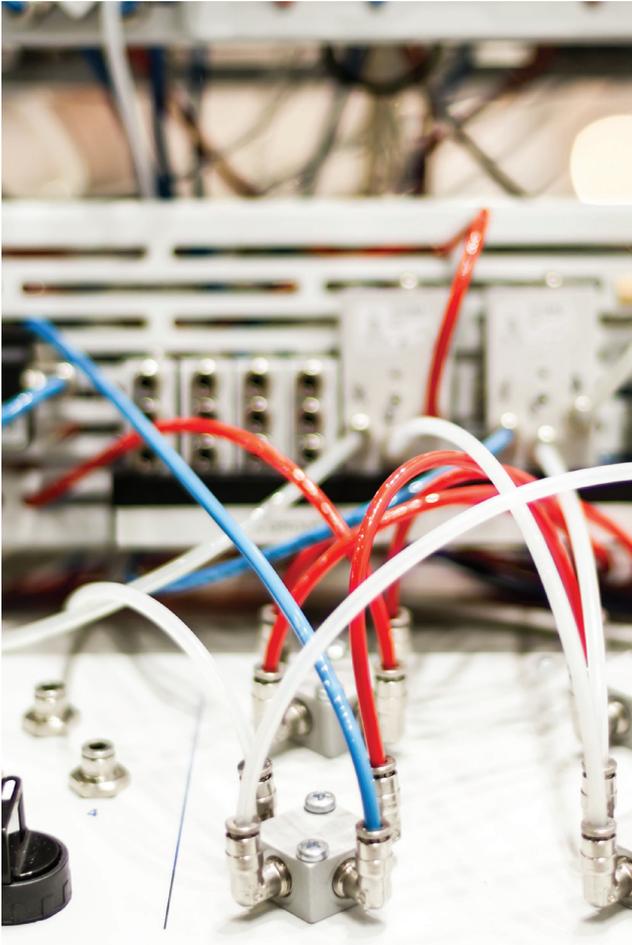
CPC Series

Designed to overcome the limitations of traditional nylon preformed coil.

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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.



Pneumatic Tube

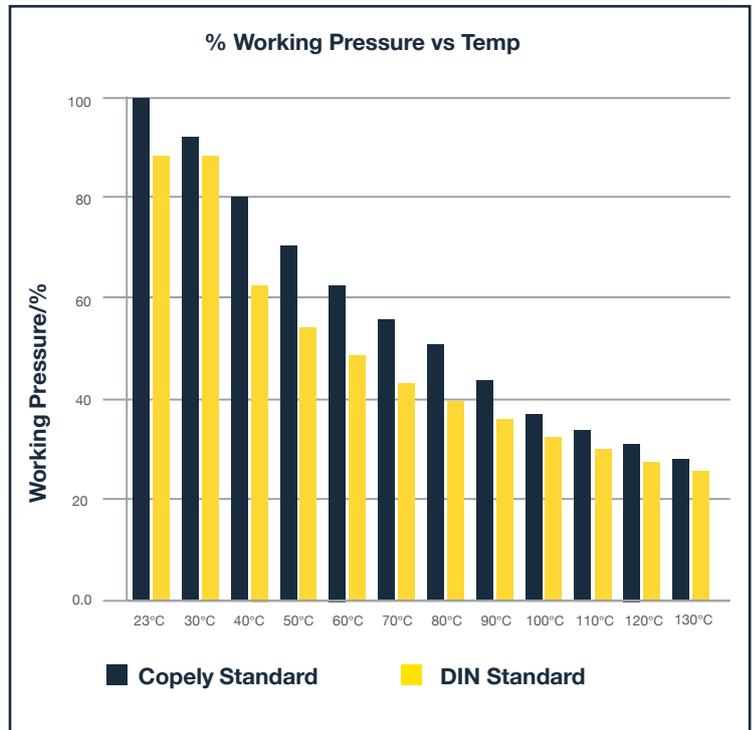
Burst Pressures and Working Temperatures

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:

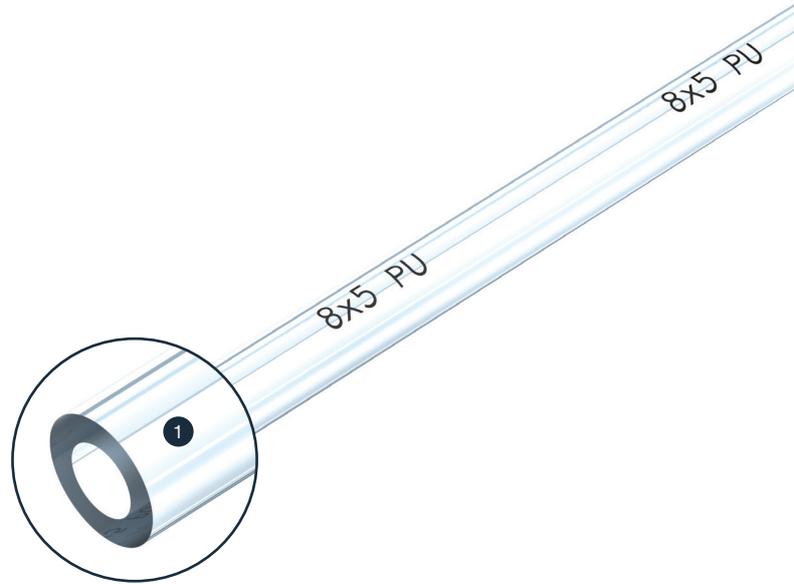
- Low temperature flexibility.
- Exceptional abrasion resistance.
- Maximum kink-resistance; minimum kink memory.
- Resistant to a wide range of chemicals.
- Compliant with FDA regulations.
- Easy to fit in confined spaces.
- Meets the standards of the push fit type couplings.
- Silicone free.
- 95/98 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.

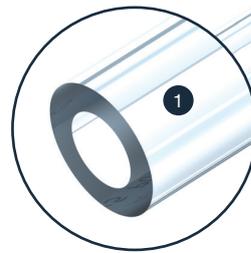
Sizes:

- 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.

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



1. Modified Super Flexible PA12



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
NMSF07	5.5 mm	8 mm	13.75 Bar	55 Bar	0.027 Kg	23 mm
NMSF08	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.

Sizes:

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

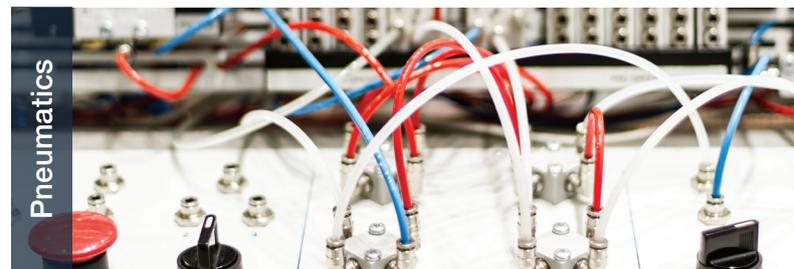
Colours:

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

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



1. Impact modified PA12



Applications:

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

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



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.

Sizes:

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

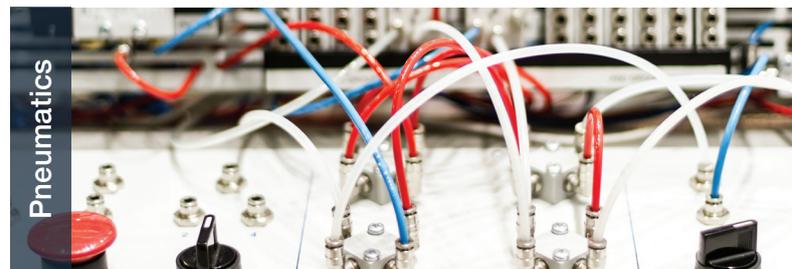
Colours:

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

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



1. Impact modified PA12



Applications:

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

						
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.

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



1. Impact modified PA12



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.

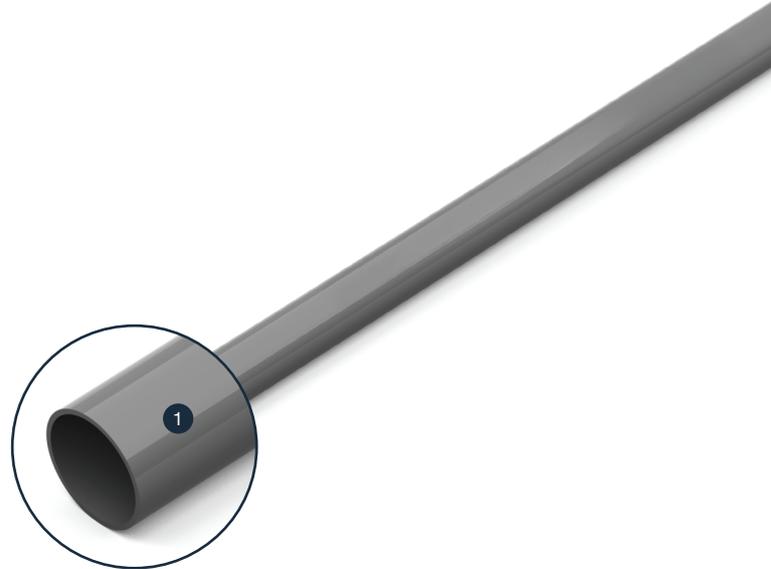
Key Features:

- 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:



1. Semi Rigid PA12



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



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.

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

Copely



1. Polyurethane tubing
2. Flame retardant PVC



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.

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



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



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	500 / 100 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	500 / 100 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	500 / 100 mm	90 mm	3/8" BSP Male Swivel With Spring Guards
		5 m	23			
		10 m	46			

POLYURETHANE COMPACT COILS

CPC Series



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

Copely



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			

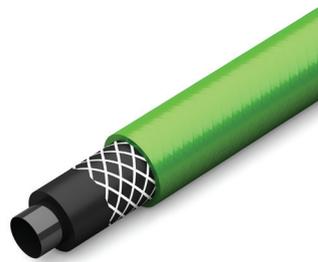
Specialist

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



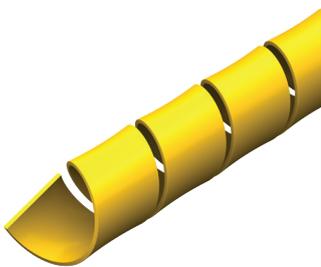
Aquavend Reinforced PVC
PHR Series
Aquavend provides the ultimate in multi-layered pressure hose.
Page 46



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



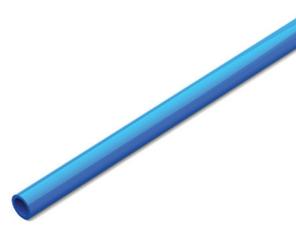
SpiralFlex HD
SPH Series
Designed to protect all types of hydraulic and pneumatic hoses.
Page 50



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



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.

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.

Sizes:

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

Colours:

Black with wide blue stripe, black inner



Copely



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



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.

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



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.

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

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

Copely



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



Applications:

- Spray paint
- Fluids



Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
ESP06	6.3 mm	11.5 mm	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.

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:

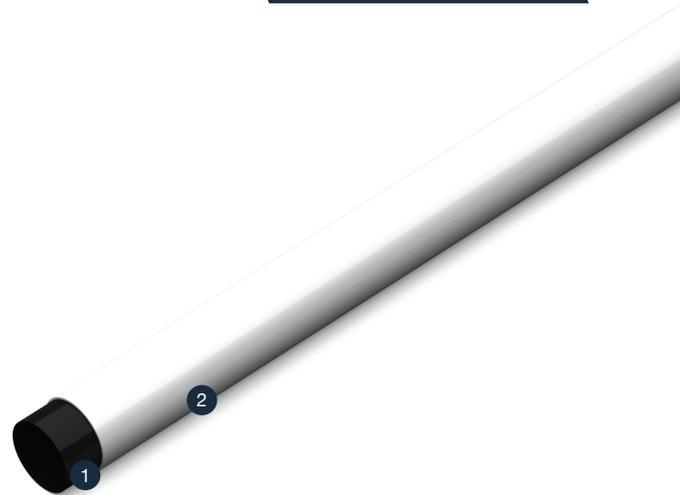
- 6.4 mm & 9.5 mm OD available from stock in 30 m coils

Colours:

- Black Inner / White outer



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



1. Thermoplastic Polyester Elastomer
2. Phthalate free PVC



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 Hytre® Liner. Food quality, non-phthalate, flexible PVC inner. 1000 denier high tenacity polyester yarn reinforcement. Food quality, non-phthalate, flexible PVC cover in white.

Key Features:

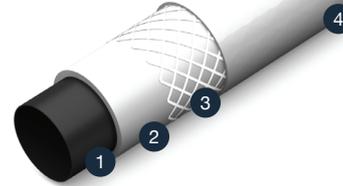
- Aquavend will not support microbiological growth.
- WRAS approved construction for conveyance of potable water.
- Cadmium and silicone-free.
- TPE mirror smooth inner for improved flow.
- Odourless and taint free specialist materials.
- Excellent resistance to abrasion.
- Good flexibility and durability.
- 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:

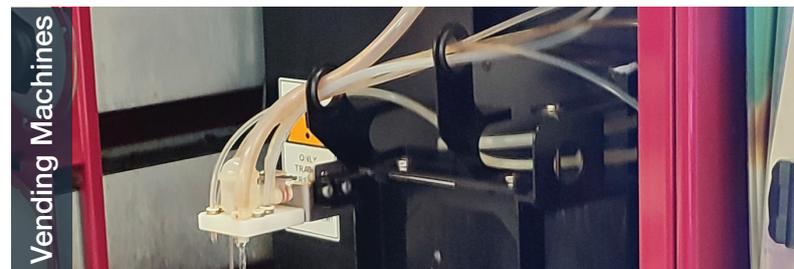
- 6.3 mm – 25 mm ID available from stock in 10 m & 30 m coils

Colours:

- Black liner / White outer



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



Applications:

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

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

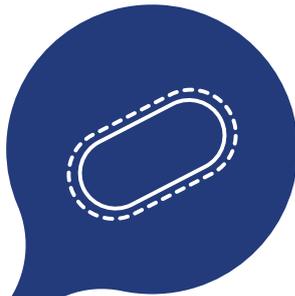
Custom sizes and colours available on request subject to minimum order quantities

Product Ref	Internal Diameter	External Diameter	Maximum Working Pressure	Minimum Burst Pressure	Weight per Metre	Bend Radius
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

1
Biomaster binds to the cell wall disrupting growth



Bacteria lands on the Biomaster surface



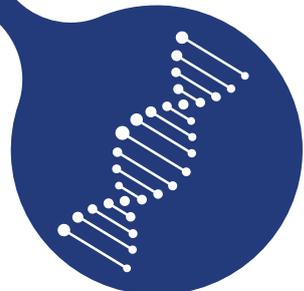
2
The Biomaster ions interfere with enzyme production stopping the cell producing energy



The bacteria can't survive



3
Biomaster interrupts the cell DNA preventing replication



Permanent product 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.

Key Features:

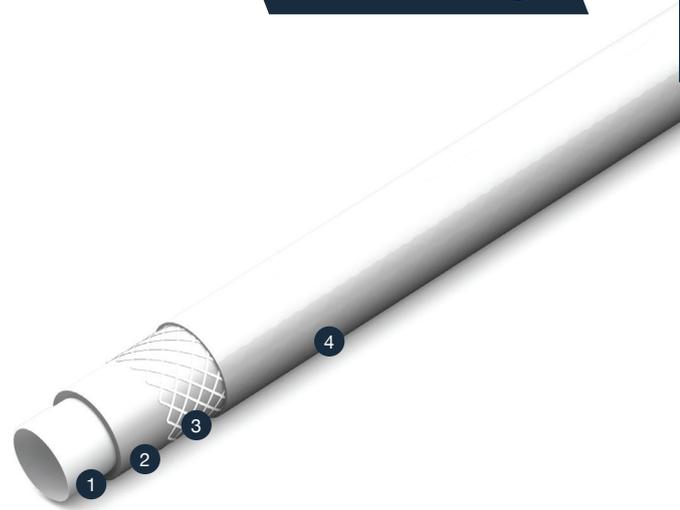
- WRAS approved for conveyance of portable water
- Tested in accordance with BS6920
- Suitable for use in the food manufacturing and medical sectors
- Hose temperature range: -20°C — +55°C, occasional use up to +65°C, cold bend temperature 45°C
- PVC free to eliminate any issues with plasticiser migration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



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



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

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
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



1. Polytetrafluoroethylene



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

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



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.

Sizes:

- Available in 20 m or 50 m coils

Colours:

- Black, Yellow and Red

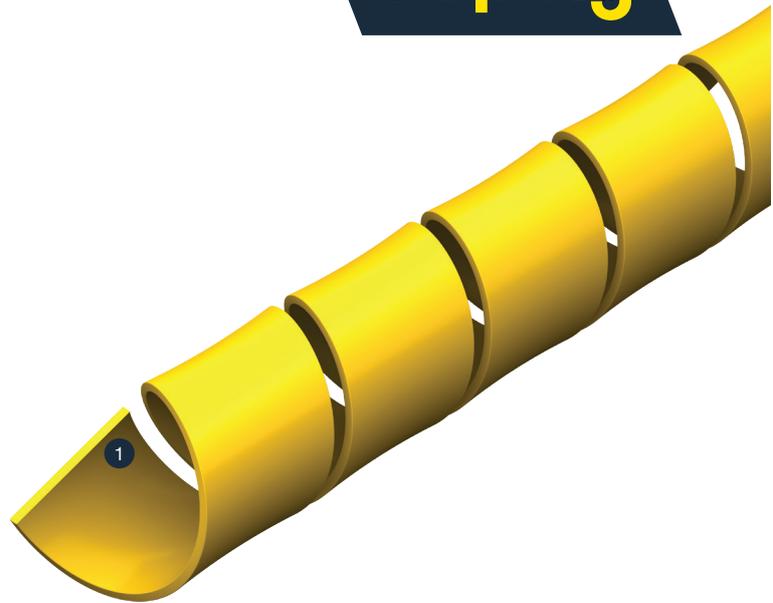
Packaging:

- Supplied boxed for ease of handling.



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

Copely



1. High Density Polyethylene (HDPE)



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

Copely



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.

Key Features:

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

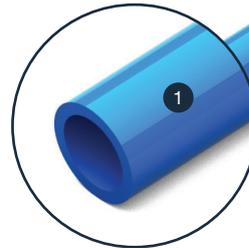
Sizes:

- 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



1. Polyethylene



Applications:

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

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

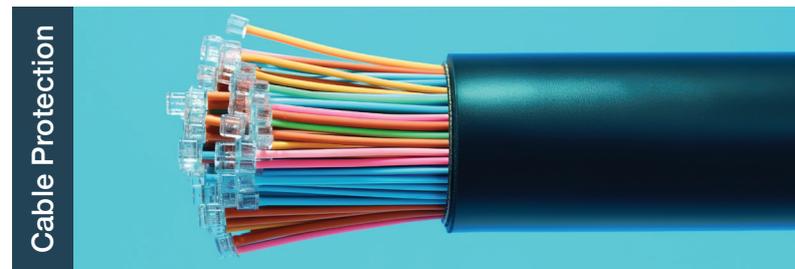


Custom sizes and colours available on request
subject to minimum order quantities

Copely



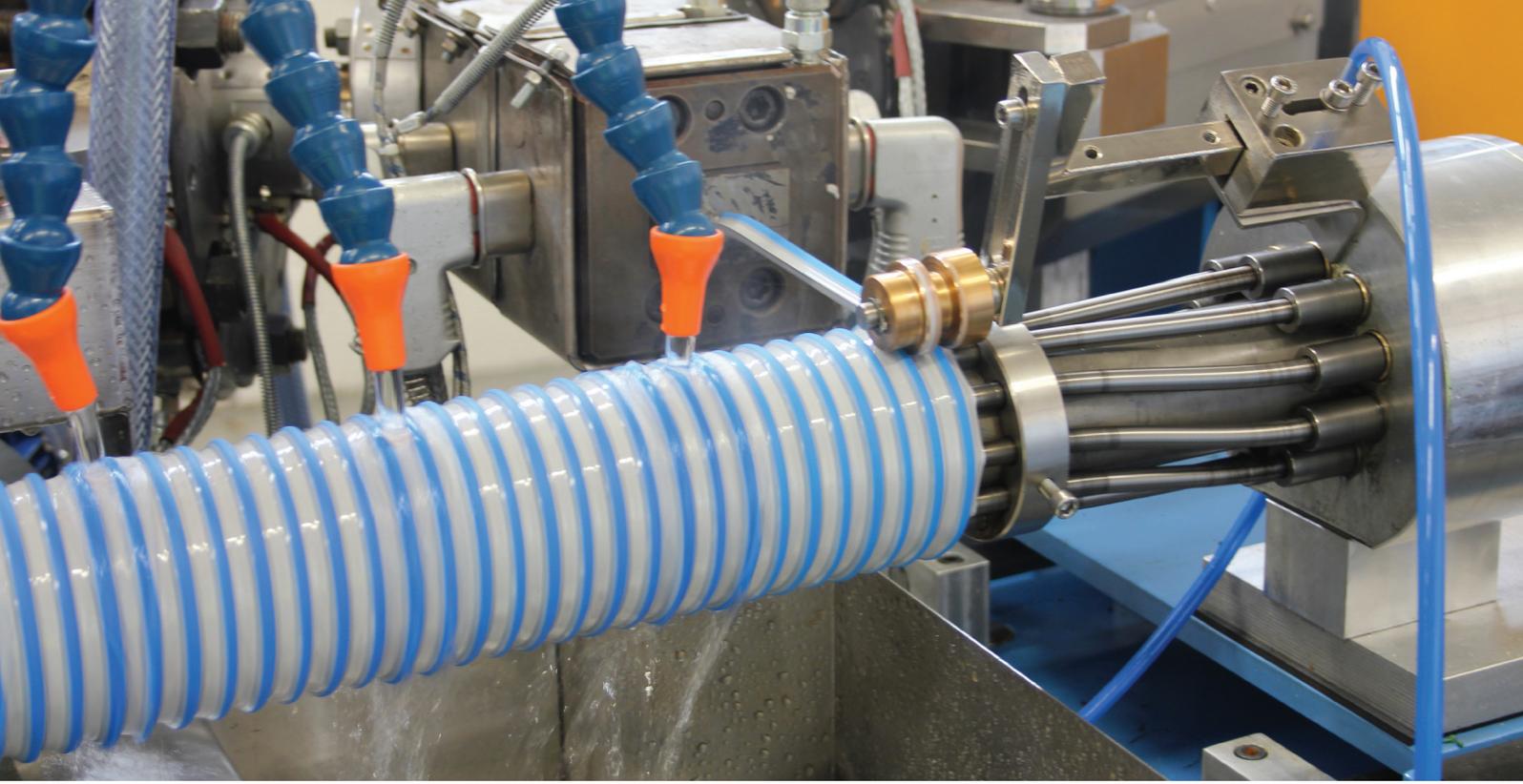
1. Made from PP, LDPE or HDPE



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



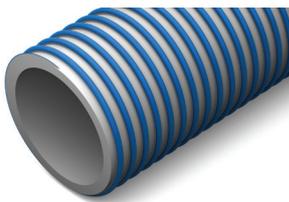
**Super Elastic Delivery Hose
DHXE Series**
A lightweight and super flexible PVC delivery hose.
Page 58



**Heavy Duty Suction & Delivery Hose
HDS Series**
A heavy duty PVC Suction and delivery hose.
Page 59



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



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



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



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



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



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



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



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



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



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

DELIVERY HOSE

DH Series

Copely



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



Liquid Transfer

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 ₂ O
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 mm	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

Copely



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 ₂ O
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 mm	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.

Sizes:

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



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



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 ₂ O
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	118 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



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



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

Applications:

- Transportation – fuels and oils

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H ₂ O
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

Copely



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.
- External helix makes it easier to pull the hose across the ground.
- RoHS 3 compliant.
- Also available as a fitted assembly

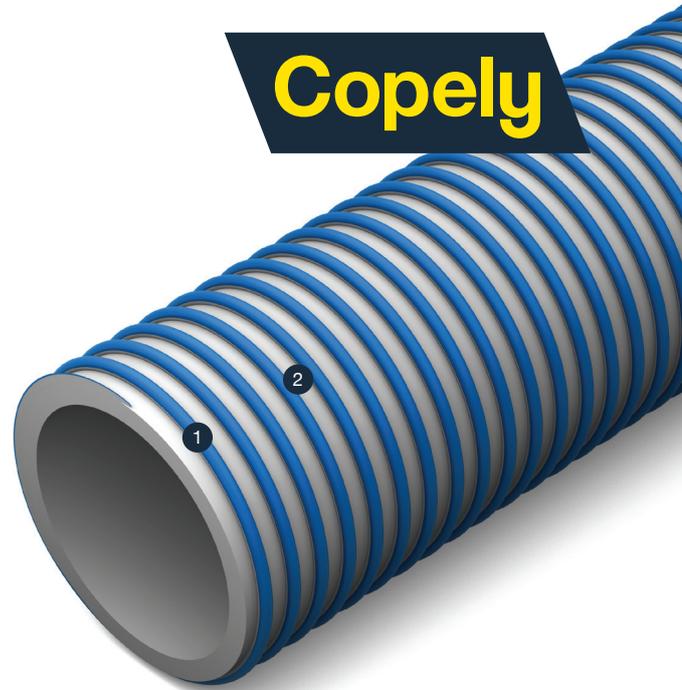
Sizes:

- Available in 10 m & 30 m coils

Colours:

- Standard – Grey, Exposed Blue 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:

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



Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H ₂ O
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

Copely



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 available as a fitted assembly

Sizes:

- Available in 10 m & 30 m coils

Colours:

- Standard – Olive Green, White Helix



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



Water Suction

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

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 ₂ O
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.

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

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



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



Applications:

- Marina
- Boat
- Caravan

Product Ref	Internal Diameter	External Diameter	Wall Thickness	Maximum Working Pressure	Weight per Metre	Bend Radius	Vacuum Metres H ₂ O
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

Copely



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.

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



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



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 ₂ O
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 mm	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.

1. Phthalate free PVC
2. Galvanised Steel Wire Helix

Sizes:

- Available in 10 m and 30 m coils

Colours:

- Clear with non-toxic steel spiral



Applications:

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



Product Ref	Internal Diameter	External Diameter	Wall Thickness	Vacuum metre H ₂ O	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.

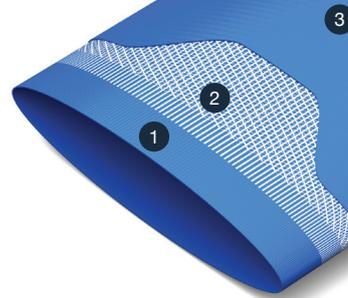
Sizes:

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

Colours:

- Blue

Copely



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.

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.

Copely



Applications:

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



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

Copely



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

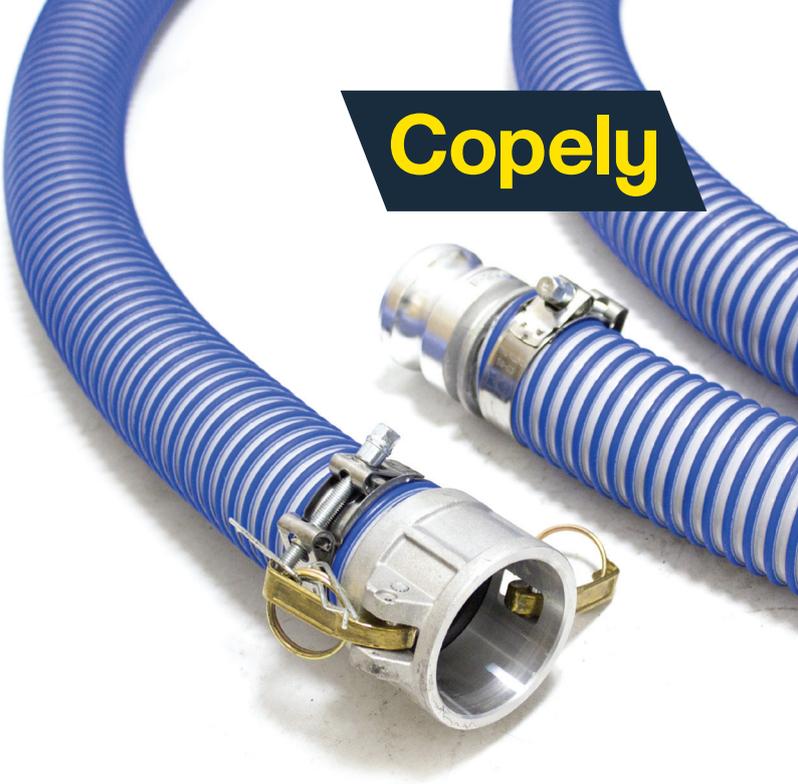
There are two main types of fixings we offer as part of our assemblies: Camlock and Leverlock Couplings.

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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.

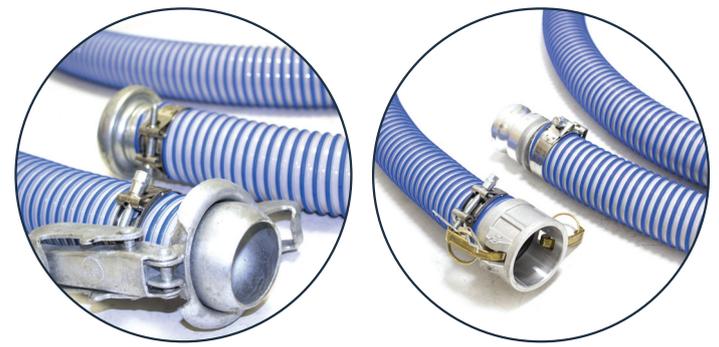
Leverlock:

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.



Applications:

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



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

Copely



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.

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	✓	✓



Applications:

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



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 single 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	Inches Frac	Dec	mm
	.0004	.01		.492	12.5
	.004	.10	1/2	.500	12.700
	.01	.25		.518	13
1/64	.0156	.397	33/64	.5156	13.097
	.0197	.50	17/32	.531	13.494
	.0295	.75	35/64	.547	13.891
1/32	.03125	.794		.5512	14
	.0394	1	9/16	.5625	14.288
3/64	.0469	1.191		.571	14.5
	.059	1.5	37/64	.578	14.684
1/16	.0625	1.588		.5906	15
5/64	.0781	1.984	19/32	.594	15.081
	.0787	2	39/64	.609	15.478
3/32	.094	2.381	5/8	.625	15.875
	.0984	2.5		.6299	16
7/64	.109	2.778	41/64	.6406	16.272
	.1181	3		.6496	16.5
1/8	.125	3.175	21/32	.656	16.669
	.1378	3.5		.6693	17
9/64	.141	3.572	43/64	.672	17.066
5/32	.156	3.969	11/16	.6875	17.463
	.1575	4	45/64	.703	17.859
11/64	.172	4.366		.7480	18
	.177	4.5	23/32	.719	18.256
3/16	.1875	4.763		.7283	18.5
	.1969	5	47/64	.734	18.653
13/64	.203	5.159		.7480	19
	.2165	5.5	3/4	.750	19.050
7/32	.219	5.556	49/64	.7656	19.447
15/64	.234	5.953	25/32	.781	19.844
	.2362	6		.7874	20
1/4	.250	6.350	51/64	.797	20.241
	.2656	6.5	13/16	.8125	20.638
17/64	.2656	6.747		.8268	21
	.2756	7	53/64	.828	21.034
9/32	.281	7.144	27/32	.844	21.431
	.2953	7.5	55/64	.859	21.828
19/64	.297	7.541		.8661	22
5/16	.3125	7.938	7/8	.875	22.225
	.315	8	57/64	.8906	22.622
21/64	.328	8.334		.9055	23
	.3346	8.5	29/32	.9062	23.019
11/32	.344	8.731	59/64	.922	23.416
	.3543	9	15/16	.9375	23.813
23/64	.359	9.128		.9449	24
	.374	9.5	61/64	.953	24.209
3/8	.375	9.525	31/32	.969	24.606
25/64	.391	9.922		.9843	25
	.3937	10	63/64	.9844	25.003
13/32	.406	10.319	1	1.000	25.400
	.4134	10.5		1.0236	26
27/64	.422	10.716	1.1/32	1.0312	26.194
	.4331	11	1.1/16	1.0625	26.988
7/16	.4375	11		1.063	27
29/64	.453	11.509	1.3/32	1.094	27.781
15/32	.469	11.906		1.1024	28
	.4724	12	1.1/8	1.125	28.575
31/64	.484	12.303		1.1417	29

Inches Frac	Dec	mm	Inches Frac	Dec	mm
1.5/32	1.156	29.359	1/19/32	1.594	40.481
	1.1811	30		1.6142	41
1.3/16	1.1875	30.163	1.5/8	1.625	41.275
1.7/32	1.219	30.956		1.6535	42
	1.2205	31	1.21/32	1.6562	42.069
1.1/4	1.250	31.750	1.11/16	1.6875	42.863
	1.2598	32		1.6929	43
1.9/32	1.281	32.544	1.23/32	1.19	43.656
	1.2992	33		1.7323	44
1.5/16	1.3125	33.338	1.3/4	1.750	44.450
	1.3386	34		1.7717	45
1.11/32	1.344	34.131	1.25/32	1.781	45.244
1.3/8	1.375	34.925		1.8110	46
	1.3779	35	1.13/16	1.8125	46.038
1.13/32	1.406	35.719	1.27/32	1.844	46.831
	1.4173	36		1.8504	47
1.7/16	1.4375	36.513	1.7/8	1.875	47.625
	1.4567	37		1.8898	48
1.15/32	1.469	37.306	1.29/32	1.9062	48.419
	1.4961	38		1.9291	49
1.1/2	1.500	38.100	1.15/16	1.9375	49.213
1.17/32	1.531	38.894		1.9685	50
	1.5354	39	1.31/32	1.969	50.006
1.9/16	1.5625	39.688	2	2.000	50.800
.113	1.5748	40			

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 sags 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.

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	
Acetaldehyde 40% aq sol	C ₂ H ₄ O	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 ₂ H ₄ O	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 ₂ H ₄ O ₂	G	L	L	P	L	P	L	P	L	G	P	P	G	G	G	G	G	G	G	G	
Acetic Acid 25%	C ₂ H ₄ O 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 ₂ H ₄ O 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 ₂ H ₄ O 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 ₂ H ₄ O ₃	P	P	L		L		G		P	P	P	P	G	G	L	L-P	G	G	P	P	
Acetone 100%	C ₃ H ₆ O	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 ₃ H ₆ O	P	P	G	L	G	L	P	P	L	P	P	P	L	L	L-P	P	G	G	G	G	
Acetonitrile	C ₂ H ₃ N	P	P																			
Acetophenone	C ₈ H ₈ O	P	P																			
Acetylene Gas	C ₂ H ₂	G	G	G	G	G	G	G	G	G	G	G-L	L	L	L			G	G	G	G	
Acrylonitrile	CH ₂ CHCN	G	G			G	L	L	L	G	G	P	P	G	G			G	G	G	G	
Adipic Acid	C ₈ H ₁₀ O ₄	G	G							G	G					G	G	G	G			
Alcohol Allyl	C ₃ H ₆ O	P	P			L	P									G	G					
Alcohol Amyl	C ₅ H 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 ₈ H ₁₆ NO ₂																					
Allyl Chloride	C ₃ H ₅ Cl					L											L	P				
Alum	KAl(SO ₄) ₂ ·12H ₂ O	G	G	G		G		P	P	G	G	G	L	G	G	G	G	G	G	G	G	
Aluminium Oxalate	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(OH) 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 ₂ O ₃	G				G															G	G
Aluminium Potassium	Al ₂ O 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	L	G	G	G-L	L	G	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	F	
Ammonium Carbonate	(NH ₄) ₂ CO ₃	G	G	G	G	G	G			G	F	P	P	L	L	G	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 ₅ NS	G				G											G	G				
Ammonium Hydroxide	NH ₃ + H ₂ O	G	G	G	G	G	G	F	L	G	G	P	P	G	G	G	G	G	G	G	G	
Ammonium Metaphosphate	C ₂ H ₇ NO ₂	G				G	G			G		G		G	G			G	G	G	G	
Ammonium Nitrate	(NH ₄)NO ₃	G	G	G	G	G	G	F	G	G	P	P	F	F	G	G	G	G	G	G	G	
Ammonium Oxalate	C ₂ H ₈ N ₂ O ₄	G	G			G										G	G					
Ammonium Persulphate	(NH ₄) ₂ S ₂ O ₈	G	G	P	P	P	P			G				P	P	G	G	G	G	G	G	
Ammonium Phosphate	(NH ₄) ₃ PO 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) ₂ SO ₄	G	G	G	L	G	L	G	G	G	G	G		G	G	G	G	G	G	G	G	
Ammonium Sulphide	(NH ₄) ₂ S	G	L	G	G	G	G			G	G					G	G	G	G	G	G	
Ammonium Thiocyanate	NH ₄ SCN	G	G			G	G			G		L		G	G	G	G				G	

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 hydrolysing 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
 F = Fair Resistance
 L = Limited 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 ₇ H ₁₄ O ₂	P	L	G	G	G	G	F	L	P	P	P	P	P	P	P	G	G	G	G	P	
Amyl Alcohol	C ₇ H ₁₄ OH	L	L	G	G	F	F	G	G	G	P	L		P	P	G	P	G	G	G	P	
Amyl Chloride	C ₇ H ₁₃ 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 ₆ H ₇ N	P	P	G	F	G	F	P	P	F	F	P	P	F	F	L	P	G	G	G	F	
Aniline Colouring	C ₆ H ₇ NH ₂	G	G					L	P	P	P	P	P	L	L			G	G	P	P	
Aniline Hydrochloride	C ₆ H ₇ ClN	F	F	P	P	P	P			P	P	L-P	P	P	P	L	P	G	G	P	P	
Aniline Sulphate	C ₆ H ₇ ClN ₂ S ₂	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 ₈ O ₂																					
Anthraquinone Sulphonic Acid	C ₁₄ H ₈ O ₃ S																					
Antimony Chloride	SbCl ₃	G	G					L	L	P	P	G		P	P	G	G	G	G	G	G	
Antimony Trichloride	SbCl ₃	G	G							L	L					G	G					
Aqua Regia concentrated	HNO 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 +HCl	F	F	P	P	P	P			F	F	P	P	P	P	P	P	G	G	F	F	
Arcton 11 (Refrigerant)	CCl ₃ F											L										
Arcton 113 (Refrigerant)	C ₂ Cl ₃ F ₃			P	P	P	P					P	P									
Arcton 114 (Refrigerant)	C ₂ Cl ₂ F ₄																					
Arcton 12 (Refrigerant)	CCl ₂ F ₂	P	P	G		G						L										
Arcton 22 (Refrigerant)	CHClF ₂			G		G						L										
Arcton 6 (Refrigerant)	CCl ₂ F ₂																					
Arsenic Acid concentrated	H ₃ AsO ₄	G	L			P	P			G	G	P	P	L	L	G	G	G	G			
Arysulphonic Acid	As ₂ O 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(OH) 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				
Benzaldehyde 100%	C ₇ H ₆ O	P	P	F	F	F	F	F	F	P	P	P	P	P	P	L	P	G	G	G	L-P	
Benzaldehyde traces	C ₇ H ₆ O	P	P	F	F	F	F	F	F	P	P	P	P	P	P	L	P	G	G	G	L-P	
Benzene	C ₆ H ₆	F-L	L	G	G	G	G	F		F	P	L-P	P	P	P	P	P	G	F	P		
Benzoic Acid	C ₇ H ₆ O ₂	G	G	P	P	P	P	P	P	G	G			F	F	L	L	G	G	G	G	
Benzyl Alcohol	C ₇ H ₈ O	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 ₇ H ₇ Cl	G		G	G	G	G						P					G	G			
Bisulfite 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 ₃ BO 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	
Bromhydric Acid 10%	HBr	G	G					P	P	G	G	P	P	P				G	G	G	G	
Bromhydric Acid 50%	HBr	P	P					P	P	G	G	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 ₆ H ₅ Br	P	P			G	P	P	P	P	P			P	P			G	G	P	P	
Butadiene	C ₄ H ₆	F	F	F	f	F	f			P	P					G	G	G	G	P	P	
Butane Gas	C ₄ H ₁₀	F	F	G	G	G	G	G	G	F	F	G-F	F	P	P	G	G	G	G	F	F	
Butanediol	C ₄ H ₁₀ O ₂	P	P													G	G					
Butyl Acetate	C ₈ H ₁₆ O ₂	P	P	G	G	G						P	P					G	G	G	L	
Butyl Alcohol (Butanol)	C ₄ H ₁₀ O	F	F	G-L	L	G-L	L	G	F	G	L	L		L	L	G	L	G	G	G	G	
Butyl Ether	C ₈ H ₁₈ O	G	G							G		P		P	P			G	G	G		
Butyl Glycol	C ₈ H ₁₈ 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 ₄ H ₈ O 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 ₄ H ₈ O ₂	P	P							P	P			P	P	L-P	L-P	G	G	P		
Calcium Arsenate	Ca ₃ As ₂ O ₈			G	G	G	G															
Calcium Bisulphite	CaH ₂ O ₂ S 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	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 ₆ H ₆ O	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 ₂ CO ₃	G	G	G	G	G	G	P	P	G	G	G	G	G	G	G	G	G	G	G	G	
Casein	—	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 ₁₈ H ₃₄ O	G	G			G										P	P	G	G			
Chloroacetic Acid	C ₂ H ₃ ClO ₂	L	P	P	P	P	P	P	P	F	F	P	P	G	G			G	G	G	G	

Please note: The information contained within this chemical resistance chart is accurate to the best of our knowledge, and is provided in good faith. It does not constitute a guarantee of the performance of any product supplied by Copely Developments Ltd. Tests should always be carried out in the specific conditions of use, to ensure reliable performance

G = Good Resistance
F = Fair Resistance

L = Limited 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	
Chloral Hydrate	C ₂ H ₃ ClO 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 x H ₂ O	G	G	G	G	G	G	G		G	G			P	P			G	G	G	G	
Chlorine water sat sol	Cl ₂ x H ₂ O	L				L-P	P			G	G	P	P	P	P	G-L	L-P	G	G	P	P	
Chlorobenzene	C ₆ H ₅ Cl	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	CrCl ₃	G				G-L	L										G	G			G	G
Chromic Acid 5%	H ₂ CrO 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 ₂ CrO 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 ₂ CrO 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 ₂ CrO 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 ₆ H ₈ O 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 ₃ COO) 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	
Copper Nitrate	Cu(NO ₃) ₂	G	G	P	P	P	P			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	C ₈ H ₈	F-L		P	P	P	P			L		P					P	P	G	G	L	
Cresols	C ₇ H ₈ O	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 ₃ C ₆ H ₄ OH	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 ₃ H ₃ N ₃ O ₃							G	P	G	G	L	P					G	G	L	P	
Cyanide	—	G	G							G	G	G-L					G	G				
Cyclohexane	C ₆ H ₁₂	P	P	G	L	G	L	P	P	G	F	P	P	P	P	P	P	G	G	G		
Cyclohexanol	C ₆ H 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 ₆ H 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 ₉ Cl 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 ₁₈ H ₃₅ N ₂ O ₂	G	G			G				G	L-P			G	G	G	G	G	G	G	G	
Detergents Alkaline	C ₁₈ H ₃₅ N ₂ O ₂	G	G			G				G	G			G	G	G	G					
Developers, photographic	—	G	G							G	G						G	G			G	G
Dextrin (Starch gum)	(C ₆ H ₁₀ O ₅) _n	G	G														G	G				
Dextrose	C ₆ H ₁₂ O ₆	G	G														G	G				
Diacetone Alcohol	C ₆ H ₁₂ O ₂	P	P	G	L	G	L	L	P	G	G	P	P	P	P			G	G	G	G	
Diammonium Phosphate	H ₂ N ₂ O ₄ P			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 ₂ H ₄ Cl ₂	P	P	G	G	L	G	P	P	P	P	P	P	P	P			L	L	P	P	
Dichloro Methane	CH ₂ Cl ₂	P	P	L		L																
Dichlorobenzene	C ₆ H ₄ Cl ₂	P	P											P	P	P	P					
Dichloroethane	C ₂ H ₄ Cl 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 ₄ H ₁₀ O	P	P	G	G	G	G	F		P	P	G		P	P	P	P	G	G	P	P	
Diethylamine	C ₄ H ₁₁ N	P	P					P	P					G	G			G	G			
Diethylene Glycol	C ₄ H 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 ₆ H ₁₀	P	P	G		G																
Dimethylamine	C ₂ H ₇ N	P	P					P	P	L	L			F	F			G	G	L	L	
Dimethyl Formanide	C ₄ D ₂ NO	P	P	G	G	G	G	G	F	G	G	P		L	L			G	G	G	G	
Dimethyl Sulphoxide	C ₂ H ₆ OS	P		F	F	G	F											G	G			
Dimethylcarbinol	C ₄ H ₁₀ O	G																				
Diocetyl Phosphate	C ₁₈ H ₃₅ O ₄ P	L	P	G	G	G	G			L	P	L				L	P					
Diocetyl Phthalate	C ₂₂ H ₃₈ O ₄	P		G	G	G	G	G	F							L-P	P	G	G			
Dioxane	C ₄ H ₈ O ₂	P	P			G	G			L	P	L				L	P			G	G	
Disodium Phosphate	Na ₂ O ₃ P	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 ₂ H ₆	G	G	P	P	P	P					F		P	P			G	G			
Ethyl Acetate	C ₄ H ₈ O 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 ₈ H ₁₀ O ₂	P	P					G	L					G	G			G	G			
Ethyl Alcohol	C ₂ H ₅ O	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 ₂ H ₅ O	G		L-P	L-P	L-P	L-P	G										G	G			
Ethyl Alcohol 20% aq sol	C ₂ H ₅ O	G	L-P	G-L	P	G-L	P			G	P	L	P				G	G				

G = Good Resistance
F = Fair Resistance

L = Limited 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
Ethyl Benzene	C ₈ H ₁₀	P	P					P	P	L	L	P	P					G	G	L	L
Ethyl Butyrate	C ₈ H ₁₆ O ₂	P	P	G	G	G	G									L-P	P	G	G		
Ethyl Cellulose	—							L	P					L	L			G	G		
Ethyl Chloride	C ₂ H ₅ Cl	P	P	G	G	G	G	P	P	P	P	L-P	P	P	P	P	P	G	G	L	P
Ethyl Ether	C ₂ H ₅ NO ₂	P	P	G	L	G	L	P	P	P	P	L	P	P	P	P	P	G	G		
Ethyl Formate	C ₃ H ₆ O ₂	P	P													L-P	P				
Ethyl Mercatan	C ₂ H ₅ SH	P	P					G	L	P	P							G	G	P	P
Ethyl Sulphate	C ₂ H ₅ O ₂ S			G	G	G	G											G	G		
Ethylene	C ₂ H ₄							G	L			G	G					G	G		
Ethylene Bromide	C ₂ H ₂ Br ₂	P	P							P	P	P	P	P	P			G	G	P	P
Ethylene Chlorhydrin	C ₂ H ₄ ClO	P	P	P	P	P	P			P	P			L	L			G	G	P	P
Ethylene Chloride	C ₂ H ₂ Cl ₂	P	P	G	F	G	F	G	L	P	P	L	P	P	P	P	P	G	G	L	P
Ethylene Diamine	C ₂ H ₄ N ₂	P	P					P	P	G	G			G	G			G	G	G	G
Ethylene Dibromide	C ₂ H ₂ Br ₂	P	P	G	L	G	L					P						G	G		
Ethylene Dichloride	C ₂ H ₂ Cl ₂	P	P	G	F	G	F	F-L		P	P			P	P	P	P	G	G	P	P
Ethylene Glycol	C ₂ H ₆ O 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 ₂ H ₆ O ₂	G	L	G	F	L	F	G	L	G	G	L	P	G	G	G	G	G	G	G	G
Ethylene Oxide	C ₂ H ₄ O	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 ₃ H	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 ₂ SiF ₆	L		P	P	P	P	F		G	G						G	G	G	G	G
Formaldehyde 40% aq sol	CH ₂ O	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 ₂ O ₂	G	G	P	P	P	P			G	G	P	P			G	G			G	G
Formic Acid 25% aq sol	CH ₂ O ₂	L	P	P	P	P	P			G	G	P	P			G	G			G	G
Formic Acid 50% aq sol	CH ₂ O ₂	L	P	P	P	P	P			G	G	P	P			G	G-L			G	G
Formic Acid 100% aq sol	CH ₂ O 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 ₃ F	G	G	P	P	P	P	G		F	F	L		P	P			G	G	F	F
Freon 113 (Refrigerant)	C ₂ Cl ₂ F ₃	F	F	G	L	G	L	G	F			G		P	P			G	G		
Freon 114 (Refrigerant)	C ₂ Cl ₂ F ₄			G	L	G	L	G										G	G		
Freon 12 (Refrigerant)	CCl ₂ F 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 ₆ H ₁₂ O ₆	G	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 ₅ H ₄ O ₂	P	P	G	F	G	F	G	F	P	P	P	P	P	P	P	P	G	G	P	P
Gallic Acid	C ₇ H ₆ O 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 ₈ H ₁₂ - C ₁₂ H ₂₆	P	P																		
Gelatin	—	G	G					G	G	G	G	G	G	G	G			G	G	G	G
Glucose	C ₆ H ₁₂ O ₆	G	G	G	G	G	G	G		G	F			G	G	G	G	G	G	G	F
Glycerine	C ₃ H ₈ (OH) ₃	G	G	G	L	G	L	G	G	G	G	F	F	G	G	G	G	G	G	G	G
Glycerol	C ₃ H ₈ O ₃	P	P			G	L	G	G	G	G	G	G	G	G			G	G		
Glycolic Acid 30% aq sol	C ₂ H ₄ O 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
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 ₇ H 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 ₆ H ₁₄	L	L	G	F	G	F	G	F	P	P	G	G	P	P			G	G	L	P
Hexyl Alcohol	C ₆ H ₁₄ O	G				G															
Hydrazine	N ₂ H ₄	P	P					P	P	F	F	P	P	F	F			G	G	G	G
Hydro Fluosilicic Acid	N ₂ H ₃ O	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	H ₂	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 ₂ O ₂	G	G	G-L	P	L-P	P			G	L	G	G	G	G	G	G				
Hydrogen Peroxide 12% (40 vol)	H ₂ O ₂	G	G	L-P	P	L-P	P			G	L			G	G	G	G	G	G		
Hydrogen Peroxide 30% (100 vol)	H ₂ O ₂	G	G	P	P	P	P			G	L-P			G	G	G	L	G	G		

Please note: The information contained within this chemical resistance chart is accurate to the best of our knowledge, and is provided in good faith. It does not constitute a guarantee of the performance of any product supplied by Copely Developments Ltd. Tests should always be carried out in the specific conditions of use, to ensure reliable performance

G = Good Resistance
F = Fair Resistance
L = Limited 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	
Hydrogen Peroxide 90% +	H ₂ O ₂	G	G	P	P	P	P			G	P			F	F	G	L	G	G			
Hydrogen Phosphide	H ₃ P	G	G														G	G				
Hydrogen Sulphide < 5%	H ₂ S	G	G			G	G	G	G	L-P	L-P	L	P	L	L	G	G	G	G			
Hydrogen Sulphide gaseous	H ₂ S	G	G							L-P	L			L	L							
Hydroquinone	C ₆ H ₄ O 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 ₈ H ₁₈	P	P					P	P	L	P	G	G					G	G	L	P	
Iso Propyl Alcohol	CH ₃ CH ₂ CH ₂	G	P	G	P	G	P			G	G	L	P			G	G					
Isobutyl Alcohol	C ₄ H 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 ₉ H ₁₄ O	P	P																			
Isopropyl Acetate	C ₇ H ₁₀ O ₂	P	P					L	L	F	L	P	P	L	L			G	G			
Isopropyl Alcohol	C ₃ H ₈ O	G				L										G	G	G	G	G	G	
Isopropyl Alcohol	C ₃ H ₈ O	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	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 ₃ H ₆ O 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 ₃ H ₆ O 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 ₂ H ₃ O ₂) ₂	G	G			G				G	G	G-L		G	G	G	G			G	G	
Lead Arsenate	As ₂ O ₃ Pb ₃	G	G			G		G	L	G	G	G-L		G	G	G	G	G	G	G	G	
Lead Nitrate	Pb(NO ₃) ₂	G	G			P				G	G			F	F	G	G					
Lead Tetraethyl	C ₈ H 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									
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(OH) 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 ₄ H ₄ O ₄	G	G							G	G					G	G					
Maleic Acid 50% aq sol	C ₄ H ₄ O ₄	G	G							G	G					G	G					
Maleic Acid concentrated	C ₄ H ₄ O ₄	L	P							G	G					G	G					
Malic Acid	C ₄ H ₆ O 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-P	P	G	P			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 ₈ H 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 ₃ H ₆ O ₂	P	P	G	G	G	G			P	P	L-P	P	P	P	P	P			P	P	
Methyl Acrylate	C ₅ H ₈ O ₂							G	L	G	G			P	P					G	G	
Methyl Alcohol (Methanol)	CH ₄ O	G	L							G	G			G	G			G	G			
Methyl Alcohol 10% aq sol	CH ₄ O	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 ₃ Br	P	P	G-P	P	G	P									P	P					
Methyl Chloride	CH ₃ Cl	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 ₅ H ₁₀ O	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 ₆ H ₁₂ O	P	P	G	L	G	L	L	P	F	F	P	P	P	P	L-P	P	G	G			
Methyl Methacrylate	C ₅ H ₈ O ₂	P	P					L	P	G	G	P	P	F	F					G	G	
Methyl Sulphate	CH ₃ SO 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 ₂ Cl 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					
Monochlorobenzene	C ₆ H ₅ Cl	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	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 ₆ H ₇ NO 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	

G = Good 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
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 ₆ H ₅ NO ₂	P	P			L	L			P	P			P	P	P	P			L	L
Nitrogen	N ₂	G	G	G	G	G	G			G	G	G	G			G	G	G	G	G	G
Nitrogen Peroxide	NO ₂							G	L					L	L			G	G		
Nitropropane	C ₃ H ₇ NO ₂	P	P																		
Nitrous Fumes moist	—	P	P							F	F										
Nitrous Oxide Gas	N ₂ O	G	L							F	F										
Nonyl Alcohol	C ₉ H ₂₀ O	G	G			G	G														
Octane	C ₈ H ₁₈			G	G-L	G	G					G	G							L-P	P
Octyl Alcohol	C ₈ H ₁₈ O	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 ₆ H ₄ Cl ₂	P	P			G	G	P	P			P	P	P	P			G	G		
Oxalic Acid 10% aq sol	C ₂ H ₂ O ₄ ·2H ₂ O	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 ₆ H ₄ Cl ₂	P	P			L	P	P	P	P	P	G	G	P	P			G	G	P	P
Paraformaldehyde	OH(CH ₂ O) _n H(n=8-100)					G	G					P	P	G	G			G	G		
Pentane	C ₅ H ₁₂	G	G							P	P			P	P						
Peracetic Acid	C ₂ H ₄ O 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 ₂ Cl 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 ₆ H ₆ O	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 ₇ H ₈ O	P	P			P	P			P	P	P	P			P	P			P	
Phenyldiazine	C ₆ H ₈ N ₂	P	P																		
Phosgene gas	CCl ₂ O															G-L	P				
Phosgene Liquid	CCl ₂ O																				
Phosphates	—	G	G			G	G														
Phosphoric Acid	H ₃ PO ₄													P	P			G	G		
Phosphoric Acid 20% aq sol	H ₃ PO 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 ₃ PO 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 ₃ PO 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 ₃ PO 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 ₂ PO 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 ₈ H ₄ O ₃	G	G																		
Picric Acid	C ₆ H ₃ N ₃ O ₇							G	L	G	G	P	P	G	G						
Picric Acid 1% aq sol	C ₆ H ₃ N ₃ O ₇	G	G	L	P	L	P			G	G					L	L				
Picric Acid 10% w/w in alcohol	C ₆ H ₃ N ₃ O 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 ₂ Cr ₂ O ₇	G	G									G	G								
Potassium Bisulphate	KHSO ₄	G	G															G	G		
Potassium Borate	K ₂ B ₄ O ₇	G	G					G	G	G-L	G-L			G	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 ₂ CO 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 ₂ CrO ₄	G	G							G-L	G-L					G	G			G	G
Potassium Cuprocyanide	K ₄ CrO ₆	G	G															G	G		
Potassium Cyanide	KCN	P	P							G	G							G	G		G
Potassium Dichromate	K ₂ Cr ₂ O ₇	G	G							G	G	G	G	G	G	G	G	G	G	G	G
Potassium Ferricyanide	C ₆ N ₆ FeK ₃	G	G							G	G							G	G		
Potassium Ferrocyanide	C ₆ N ₆ FeK ₄	G	G							G	G							G	G		

Please note: The information contained within this chemical resistance chart is accurate to the best of our knowledge, and is provided in good faith. It does not constitute a guarantee of the performance of any product supplied by Copely Developments Ltd. Tests should always be carried out in the specific conditions of use, to ensure reliable performance

G = Good Resistance
F = Fair Resistance

L = Limited 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 ₂ S ₂ O ₈	G	G													G	G			G	G
Potassium Phosphate	KH ₂ PO ₄	G	G													G	G				
Potassium Sulphate	K ₂ SO ₄	G	G							G	G			G	G						
Potassium Sulphate 10 % aq sol	K ₂ SO ₄	G	G	G	G	G	G			G	G	G	G	G	G	G	G			G	G
Potassium Sulphide	K ₂ S	G	G							G	G			G	G	G	G	G	G		
Potassium Thiosulphate	H ₂ S ₂ O ₃ K ₂	G	G													G	G				
Propane	C ₃ H ₈	G	G	G	G	G	G			F	F	G-L		P	P					G	G-L
Propargyl Alcohol	C ₃ H ₄ O	G	G			G	G									G	G				
Propylene	C ₃ H ₆	F	F					G	G					P	P			G	G		
Propylene dichloride	C ₂ H ₄ Cl ₂	P	P													P	P				
Propylene Glycol	C ₃ H ₈ O ₂	G	G													G	G	G	G		
Propylene Oxide	C ₃ H ₆ O	P	P																		
Pure Acetic Acid	C ₂ H ₄ O ₂	P	P			P	P	P	P	P	P	P	P					G	G	P	P
Pyridine	C ₅ H ₅ N	P	P	L	P	L	P			F	F	P	P	P	P						
Saccharose	—	G	G																		
Salicylic Acid	C ₇ H ₆ O 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 ₂ H ₃ AgO ₂	G	G			G	G													G	G
Silver Cyanide	AgCN	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 ₂ H ₃ NaO ₂	G	G							G	G			P	P	G	G	G	G		
Sodium Acid Sulphate	C ₂ H ₃ NaO ₂	G	G													G	G				
Sodium Aluminate	NaAlO ₂	G	G							G	G			P	P	G	G				
Sodium Antimonate	NaO ₃ Sb	G	G													G	G				
Sodium Benzoate	C ₇ H ₅ NaO 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 ₄	G	G							G	G			G	G						
Sodium Borate	Na ₂ B ₄ O 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 ₂ CO 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 ₂ CO 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 ₁₂ Na ₃ SO ₃	G	G													G	G				
Sodium Ferrocyanide	C ₆ FeNa ₃ N ₅	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	G
Sodium Hyposulphate	NaClO	G	G																		
Sodium Metaphosphate	Na ₃ P ₃ O ₁₀	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 ·nH ₂ O	G	G			L-P	P			G	G			F	F	G	G			G	G
Sodium Peroxide	Na ₂ O ₂	G	G							G	G			P	P	G	G				
Sodium Phosphate	Na ₃ PO ₄	G	G			G	G									G	G	G	G	G	G
Sodium Phosphate 10% aq sol	Na ₃ PO ₄	G	G			G	G									G	G	G	G	G	G
Sodium Silicate	Na ₂ SiO ₃	G	G			G	G	G	L	G	G	L	P	G	G	G	G	G	G	G	G
Sodium Sulphate	Na ₂ SO 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 ₂ SO ₄	G	G			G	G			G	G			G	G						
Sodium Sulphide 25% aq sol	Na ₂ S	G	G	G-L	L	G-L	L			G	G	G-L	L	G	G	G	G			G	G
Sodium Sulphide concentrated	Na ₂ S	G	G	G-L	L					G	G			G	G	G	G			G	G
Sodium Sulphite	Na ₂ SO ₃	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Sodium Sulphite 10% aq sol	Na ₂ SO ₃	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Sodium Tetraborate	Na ₂ B ₄ O ₇ ·10H ₂ O	G	G													G	G				
Sodium Thiosulphate	Na ₂ S ₂ O 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				

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F = Fair Resistance
L = Limited 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
Stannous Chloride	SnCl ₂	G	G													G	G				
Starch	—	G	G			G				G	G					G	G				
Steam	H ₂ O	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 ₈ H 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 ₂ NSO ₃ H	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 ₂ SO ₄	G	G	G-L	P	L	P			G	G	G	P	F	F	G	G	G	G	G	G
Sulphuric Acid 20% aq sol	H ₂ SO ₄	G	G	L	P	P	P			G	G	L-P	P	P	P	G	G			G	G
Sulphuric Acid 30% aq sol	H ₂ SO ₄	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 40% aq sol	H ₂ SO ₄	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 45% aq sol	H ₂ SO ₄	G	G	P	P	P	P			G	G	P	P	P	P	G	G			G	G
Sulphuric Acid 50% aq sol	H ₂ SO 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 ₂ SO 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 ₂ SO 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 ₂ SO ₄	L	P	P	P	P	P			L	P	P	P	P	P	L	L			G	G
Sulphuric Acid 80% aq sol	H ₂ SO ₄	L	P	P	P	P	P			L	P	P	P	P	P	L-P	P			G	G
Sulphuric Acid 90% aq sol	H ₂ SO ₄	P	P	P	P	P	P			P	P	P	P	P	P	P	P			G	G
Sulphuric Acid 95% aq sol	H ₂ SO ₄	P	P	P	P	P	P			P	P	P	P	P	P	P	P			G	L
Sulphuric Acid 98% aq sol	H ₂ SO ₄	P	P	P	P	P	P			P	P	P	P	P	P	P	P	G	G	G-L	L
Sulphuric Acid fuming	H ₂ SO 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 ₄ H ₆ O ₆	G	G	G	G	G	G			G	G	L	L	G	G	G	G			G	G
Tetra Ethyl Lead	C ₈ H ₂₀ Pb	G	G			G	G			G	P					G	P			G	G
Tetrahydrofuran	C ₄ H ₈ O	P	P			G	G			P	P	P	P	P	P	P	P			L	P
Tetrahydronaphthalene	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 ₂ S ₂ O ₅	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 ₇ H ₈	P	P	G	L	G	L			P	P	P	P	P	P	P	P	P	P	G	L
Transformer Oil	—	G	P	G	G	G	G			L	P	L-P	P			P	P			P	P
Tributyl Phosphate	C ₁₂ H ₂₇ O ₃ P	P	P	G	G	G	G			L	P	L	L			L	P			L	P
Trichloroacetic Acid	C ₂ HCl ₃ O ₂	P	P																		
Trichlorobenzene	C ₆ H ₃ Cl ₃	P	P															P	P		
Trichloroethane	C ₂ H ₃ Cl ₃	P	P	L-P	P	L	P					P	P			P	P				
Trichloroethylene	C ₂ HCl ₃	P	P	L-P	P	L	P			P	P	P	P			P	P	G	G	L	P
Tricresyl Phosphate	C ₇ H ₁₅ NO ₃	P	P	G	G	G	G			P	P	L-P	P			P	P			G	G
Triethanolamine	C ₆ H ₁₅ NO ₃	G	G							G	P					P	P				
Triethylene Glycol	C ₆ H ₁₄ O ₄	G	G															G	G		
Trisodium Phosphate	Na ₃ PO 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				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 ₂ N ₂ O	G		G	L	G	L			G	G	G-L		G	G	G	G			G	G
Urea Formaldehyde Sol	CH ₂ N ₂ O	P	P	G		G															
Uric Acid (dilute)	C ₅ H ₄ N ₂ O 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 ₂ H ₄ O ₂	G	G	G	G	G	G			G	G	G-L	L	G	G	G	G			G	G
Vinyl Acetate	C ₄ H ₆ O ₂	P	P																		
Vinyl Chloride	C ₂ H ₃ Cl	P	P							G	G	P	P	P	P			G	G	G	G
Water	H ₂ O	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 ₈ H ₁₀	P	P	G	L	G	L			G	L	P	P			P	P	G	G	L	P
Xylenol	C ₈ H ₁₀ O	P	P									P	P								
Yeast	—	G	G							G	G					G	G				
Zinc Ammonium Carbonate	C ₂ NO ₂ ZN	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	ZnS ₄	G	G							G	G					G	G	G	G	G	G

Please note: The information contained within this chemical resistance chart is accurate to the best of our knowledge, and is provided in good faith. It does not constitute a guarantee of the performance of any product supplied by Copely Developments Ltd. Tests should always be carried out in the specific conditions of use, to ensure reliable performance

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