

# EUROLON\*

## NYLON TUBING - FLEXIBLE & SEMI RIGID - NMF, NLF & NHR series

### Special Features

- Resistance to a wide range of chemicals (see Chemical Resistance Table)
- Silicone free
- Abrasion resistance - excellent
- Mirror smooth inner for improved flow
- Made from virgin polymer type 12
- Produced to exacting tolerances
- Supplied in both metric and imperial sizes



### General Description

**Copely Developments Limited Eurolon** industrial nylon tubing is extruded from Polyamides 11 and 12 to precise dimensional tolerances, on machinery utilising the latest technical improvements in extrusion calibration.

**Eurolon** industrial tubing has low moisture absorption when compared with other Polyamides, ensuring consistent flexibility over a wide range of temperature and humidity conditions.

**Eurolon** tubing is seamless in construction with a smooth high gloss inner and outer surface. It is light - approximately one ninth the weight of copper - and flexible, facilitating ease of installation. It is ideally suited for applications such as fuel lines, oil lines, petrol tank breather pipes, greasing sheaths, pneumatic controls, bleed lines and brake controls.

**Eurolon** industrial nylon tubing conforms to S.M.M.T. Standard NM7B, 1968 and C2C in dimensions specified in addition to SAEJ844 3A (unreinforced) and 3B (reinforced) types, (3B available by special order). Metric dimensions conform to BS5409 with respect to all technical details.

**Eurolon** type 11 nylon in semi rigid grade meets the requirements of government regulations with regard to materials and articles in contact with food under U.K. Statutory Instrument 1978 no. 1927.

**Eurolon** nylon tubing is available for higher temperature applications, with heat resisting additives in both semi rigid and flexible grades, subject to minimum manufacturing quantities.



## TECHNICAL DATA

### EUROLON NYLON TUBING FLEXIBLE & SEMI RIGID

(U.K. And European Sizes)

Stock Sizes - 30 metre coils

Product Ref.	Size (inches)		Weight per coil kgs	Min. Bend Radius	Nominal Burst Pressure	
	O.D.	I.D.			PSI	BAR
Flexible, Medium Gauge						
NMF 04	1/8	.075	0.18	3/4"	1,000	68
NMF 05	5/32	.086	0.29	3/4"	1,000	68
NMF 06	3/16	.117	0.37	3/4"	1,000	68
NMF 08	1/4	.170	0.58	1"	1,000	68
NMF 10	5/16	.212	0.90	1 1/2"	1,000	68
NMF 12	3/8	.250	1.33	2 1/2"	1,000	68
NMFS 12	3/8	.265	1.87	2"	1,000	68
NMF 16	1/2	.375	2.40	2"	1,000	68
NMF 20	5/8	.500	3.58	3 1/2"	1,000	68
NMF 24	3/4	.594	5.80	6"	1,000	68
NMF 32	1	.812	1.16	9"	1,000	68

Product Ref.	Size (inches)		Weight per coil kgs	Min. Bend Radius	Nominal Burst Pressure	
	O.D.	I.D.			PSI	BAR
Semi Rigid, Light Gauge						
NLR 04	1/8	.095	0.12	3/4"	1,000	68
NLR 05	5/32	.106	0.23	3/4"	1,000	68
NLR 06	3/16	.137	0.29	1"	1,000	68
NLR 08	1/4	.190	0.47	1 1/2"	1,000	68
NLR 10	5/16	.242	0.68	1 1/2"	1,000	68
NLR 12	3/8	.295	0.94	2"	1,000	68

Product Ref.	Size (inches)		Weight per coil kgs	Min. Bend Radius	Nominal Burst Pressure	
	O.D.	I.D.			PSI	BAR
Semi Rigid, Medium Gauge						
NMR 08	1/4	.170	0.58	1 1/2"	1,750	119
NMR 10	5/16	.212	0.90	2"	1,750	119
NMR 12	3/8	.250	1.33	2 1/2"	1,750	119
NMR 16	1/2	.375	1.87	3 1/2"	1,750	119
NMR 20	5/8	.500	2.40	4"	1,750	119

Product Ref.	Size (inches)		Weight per coil kgs	Min. Bend Radius	Nominal Burst Pressure	
	O.D.	I.D.			PSI	BAR
Semi Rigid, Heavy Gauge						
NHR 04	1/8	.075	0.18	1/2"	2,500	170
NHR 05	5/32	.086	0.29	3/4"	2,500	170
NHR 06	3/16	.107	0.41	1"	2,500	170
NHR 08	1/4	.150	0.69	1 1/2"	2,500	170
NHR 10	5/16	.182	1.09	2"	2,500	170
NHR 12	3/8	.225	1.62	2 1/2"	2,500	170

Product Ref.	Size (inches)		Weight per coil kgs	Min. Bend Radius	Nominal Burst Pressure	
	O.D.	I.D.			PSI	BAR
Flexible Light Gauge						
NLF06	3/16	.137	0.29	3 1/4"	750	51
NLF08	1/4	.190	0.47	3 1/4"	750	51
NLF10	5/16	.242	0.68	1"	750	51
NLF12	3/8	.295	0.94	1 1/2"	750	51

Available in Natural and Black colour with other colours available subject to minimum manufacturing quantity

Standing Tolerances	Bore (inches)	O.D.
Size		
Up to but not including 3/16"	+ 0.004 - 0.004	+ 0.000 - 0.004
3/16" up to and including 5/8"	+ 0.005 - 0.005	+ 0.000 - 0.005
Over 5/8" up to and including 3/4"	+ 0.006 - 0.006	+ 0.000 - 0.006
Over 3/4" up to and including 1"	+ 0.006 - 0.006	+ 0.000 - 0.008

NOTE: Working pressures - allow a factor of between 2 : 1 and 4 : 1 subject to operating conditions.



# TECHNICAL DATA - METRIC

LIGHT DUTY FLEXIBLE (in accordance with BS 5409 Pt. 1: 1976)

Product Ref.	Outside Diameter			Wall Thickness Concentricity			Recommended Maximum Working Pressure				Minimum Radius Inside Bend @ 20°C mm	Weight per coil Kg
	Nominal mm	Min. mm	Max. mm	Min. mm	Max. mm	Max. mm	-40°C +20°C bar	+30°C bar	+30°C bar	+80°C bar		
NLF 04M	4	3.95	4.05	0.42	0.58	0.08	15	12	9.5	7	30	0.21
NLF 05M	5	4.95	5.05	0.55	0.71	0.08	16	13	10	7.5	35	0.27
NLF 06M	6	5.90	6.05	0.67	0.83	0.08	16	13	10	7.5	45	0.41
NLF 08M	8	7.90	8.05	0.92	1.08	0.08	17	14	11	8	55	0.72
NLF 10M	10	9.90	10.05	1.17	1.33	0.08	17	14	11	8	75	1.13
NLF 12M	12	11.90	12.05	1.17	1.33	0.08	14	11	9	6.5	85	1.37
NLF 16M	16	15.90	16.05	1.42	1.58	0.08	13	10	8	6	115	2.23
NLF 18M	18	17.90	18.05	1.42	1.58	0.10	11	9	7	5	135	2.54
NLF 22M	22	21.90	22.05	1.72	1.88	0.10	11	9	7	5	155	3.73
NLF 28M	28	27.80	28.05	2.17	2.33	0.10	11	9	7	5	225	5.94

NORMAL DUTY FLEXIBLE (in accordance with BS 5409 Pt. 1: 1976)

Product Ref.	Outside Diameter			Wall Thickness Concentricity			Recommended Maximum Working Pressure				Minimum Radius Inside Bend @ 20°C mm	Weight per coil Kg
	Nominal mm	Min. mm	Max. mm	Min. mm	Max. mm	Max. mm	-40°C +20°C bar	+30°C bar	+30°C bar	+80°C bar		
NMF 04M	4	3.93	4.05	0.67	0.83	0.08	26	22	17	12	25	0.25
NMF 05M	5	4.93	5.05	0.77	0.93	0.08	24	20	15	11	30	0.36
NMF 06M	6	5.90	6.05	0.92	1.08	0.08	24	20	15	11	35	0.52
NMF 08M	8	7.90	8.05	1.17	1.33	0.08	22	18	14	10	45	0.87
NMF 10M	10	9.90	10.05	1.42	1.58	0.08	22	18	14	10	60	1.31
NMF 12M	12	11.90	12.05	1.67	1.83	0.08	21	17	13	10	70	1.85
NMF 16M	16	15.90	16.05	1.92	2.08	0.08	18	15	11	8.5	90	2.88
NMF 18M	18	17.90	18.05	1.92	2.08	0.10	16	13	10	7.5	115	3.29
NMF 22M	22	21.90	22.05	2.42	2.58	0.10	16	13	10	7.5	125	5.00
NMF 28M	28	27.80	28.05	2.92	3.08	0.10	15	12	9.5	7	160	7.69

All metric sizes ex stock in Natural and Black colour with other colours available subject to minimum manufacturing quantity

**STOCK SIZE** - METRIC 30 metre coils

Physical Properties

Density	1.04 g / cc	65.4 lb / ft. <sup>3</sup>
Melting Point	186°C	367°F
Specific Heat (Cal.)	0.58	
Thermal conductivity (c.g.s.)	7 x 10 <sup>-4</sup>	
Latent heat of fusion (K.Cal/KG)	20	
Linear coefficient of expansion	11 x 10 <sup>-5</sup>	
Atmospheric absorption of water (@ R.H. 65%)	0.5%	
Maximum absorption of water (@ R.H. 100%)	1.5%	
Inflammability	Self extinguishing	

Conforms to Product Standards:

BS 5409 Part 1 : 1976  
ISO 7628 Part 1 : 1985  
ISO 7628 Part 2 : 1986

Test Methods & Procedures

VDE 0303  
DIN 53452  
DIN 53455  
DIN 53479

**Please see Standards Index for further information**

## BURST TEST PRESSURE

METRIC SIZE NYLON

Nominal Outside Diameter	Minimum Burst Pressure	
	Light Duty Grade	Normal Duty Grade
mm	bar	bar
4	45	78
5	48	72
6	48	72
8	51	66
10	51	66
12	42	63
16	40	54
18	33	48
22	33	48
28	33	48

### Please Note

For Nylon tubing for foods product applications please ask for details of Eurolon Brewers Hose  
For extra flexible grade Nylon tubing, please ask for details of:  
COPELY 'SUPERFLEX' NYLON range  
Full details available of items available from stock in various colours.

**NOTE:** These short term burst pressures are calculated on an induced stress of 20 MPa @ 20°C



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