

# Superflex Industrial Nylon Tubing

NMSF series (The Extra Flexible Nylon)



**Eurolon**

## General Description

Copoly Developments Eurolon Superflex is extruded from Polyamide Type 12 to precise tolerances. Eurolon Superflex has been specially developed to meet demands for a nylon tube which gives superior flexibility over existing materials.

Eurolon Superflex has been developed in conjunction with the laboratories of Emser-Werke AG, Switzerland after very stringent tests. It will remain flexible even when exposed to very low temperatures and has extremely high impact resistance. The combination of these qualities with the advantages of superior abrasion resistance allied with high durability to oil and petrol, provides many interesting applications, these include: instrumentation lines, fuel and oil pipes, flexible paint and solvent spray hose.

This particular type of Polyamide is the most flexible available today and our technical department is able to offer advice regarding applications. Eurolon Superflex range is in addition to our standard range of nylon tubing.

## Technical Data

Product Ref.	Size		I.D.	Nominal Wall Thickness mm	Nom. Burst Pressure @ +20°C		Bend Radius mm
	O.D.	Tol.			P.S.I.	BAR	
<b>Superflexible Medium Gauge</b>							
NMSF04M	4	+0.05/-0.07	2.5	0.75 ± 0.08	917	62	25mm
NMSF05M	5	+0.05/-0.07	3.3	0.85 ± 0.08	850	58	30mm
NMSF06M	6	+0.05/-0.10	4	1.00 ± 0.08	840	57	35mm
NMSF08M	8	+0.05/-0.10	5.5	1.25 ± 0.08	802	55	45mm
NMSF10M	10	+0.05/-0.10	7	1.50 ± 0.08	773	53	60mm
NMSF12M	12	+0.05/-0.10	8.5	1.75 ± 0.08	755	51	70mm

A full range of colours are available. Please ask for details

Food

Abrasive

Water

Fuel/Oil

## Special Features

- Resistant to a wide range of chemicals (see Chemicals Resistance Table)
- Silicone free
- Abrasion resistance - excellent
- Mirror smooth inner for improved flow
- Superior Flexibility

## Physical Properties

Physical Properties	Method	Unit	
Melting Point Range	Polarisation Microscope	°C	162 - 170
Density	DIN 53479	g/cm <sup>3</sup>	1.05
Water Absorption	Condition at 65% RH & 20°C	%	1.4
Water Saturation	Condition at 65% RH & 20°C	Kp/cm <sup>2</sup>	160
Tensile Strength, yield	DIN 53455	Kp/cm <sup>2</sup>	280
Elongation at yield	DIN 53455	%	350
Tensile Strength at break	DIN 53455		
Elongation at break	DIN 53455	Kp/cm <sup>2</sup>	140
Flexural Strength at conventional deflection	DIN 53452	Kp/cm <sup>2</sup>	210
Ball Indentation hardness	VDE 0303 . 60 sec	cmkp/cm <sup>2</sup>	No break
Impact Strength	DIN 53453		51
Shore Hardness - Scale D			

Max. Temperatures for long term usage in: AIR, WATER & OIL 80°C

Max. Temperatures for short term: 100°C

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