



PRODUCT DATASHEET

PA12 -U.V. STABILIZED FLEXIBLE NYLON TUBING

General product description

PA12 Flexible is manufactured from a flexible, plasticised, high viscosity extrusion grade of Polyamide 12 (PA12). PA12 Flexible is impact modified and heat and UV stabilised.

PA12 is the polyamide with the lowest water absorption and also the lightest commercially available.

Main features of PA12 Flexible NYLON :

- Exceptional impact strength, also at low temperatures
- Flexibility
- UV and heat stability
- Low density, low weight
- Can withstand repeated flexing without fatigue or fracture

Application examples:

PA12 is suitable for applications requiring low temperature impact strength for use in automotive and industrial applications.

Motor vehicles, chemical transport, fuel and oil transfer, compressed air, hydraulics, manufacturing equipment, pneumatic controls, etc.

Operating Temperatures

Constant from minus - 40°C to plus + 80°C

Intermittent to plus + 110 °C

Colours

Black

Form of Supply

U.V Stabilized PA12 is stocked in a wide range of sizes in 30 metre and 100 metre coils, and 500 metre wooden drums.

Printing

We have the latest on line printing technology and can print tubing with any desired text and simple logos, minimum order quantity dependant.



Chemical Resistance

Please contact us direct on 01433 620 175 for chemical specific information.

PA12 Flexible conforms to the following standards;

BS5409, S.M.M.T C2C (Type A), SAE J1394 (Type A), SAE J844 (Type A), DIN 73378, DIN74323, DIN 74324 (Parts 1 & 2), ISO-TC 22SC/2, ISO 7628

Shore-D Hardness = 63

UL 94 Flame Rating = HB

Maximum Working Pressure

This figure is based on the theoretical burst pressure at 20°C, using a safety factor 3:1.

Any increase in temperature above 20°C will result in pressure capabilities.

European Waste Classification

Waste Plastic 07 02 13

Resin Identification Code (RIC) and codes defined by the European Commission



#7 O (OTHER) All other plastics

(Polycarbonate (PC), polyamide (PA), styrene acrylonitrile (SAN), acrylic plastics/polyacrylonitrile (PAN), bioplastics)



PA Polyamide

Nylon



PA12 Flexible Metric Sizes					Wall mm	W/P bar	B/P Bar	Kgs 30m	kgs 100m	Bend Radius
3mm	od	x	1.5mm	id	0.75	44	132	0.16	0.54	
4mm	od	x	2mm	id	1	44	132	0.29	0.96	
4mm	od	x	2.5mm	id	0.75	33	99	0.23	0.78	10mm
4mm	od	x	3mm	id	0.5	21	63	0.17	0.56	16mm
5mm	od	x	2mm	id	1.5	53	159	0.51	1.68	
5mm	od	x	3mm	id	1	35	105	0.39	1.28	12mm
5mm	od	x	3.3mm	id	0.85	30	90	0.34	1.13	13mm
6mm	od	x	3mm	id	1.5	44	132	0.65	2.16	
6mm	od	x	4mm	id	1	29	87	0.48	1.60	16mm
6mm	od	x	4.5mm	id	0.75	21	63	0.38	1.26	24mm
8mm	od	x	5mm	id	1.5	33	99	0.94	3.13	
8mm	od	x	5.5mm	id	1.25	27	81	0.81	2.70	25mm
8mm	od	x	6mm	id	1	21	63	0.67	2.24	32mm
9mm	od	x	6mm	id	1.5	29	87	1.08	3.61	
10mm	od	x	7mm	id	1.5	26	78	1.23	4.09	33mm
10mm	od	x	7.5mm	id	1.25	21	63	1.05	3.51	39mm
10mm	od	x	8mm	id	1	16	48	0.87	2.88	50mm
11mm	od	x	8mm	id	1.5	23	69	1.37	4.57	
12mm	od	x	8mm	id	2	29	87	1.92	6.41	
12mm	od	x	8.5mm	id	1.75	26	78	1.73	5.75	
12mm	od	x	9mm	id	1.5	21	63	1.51	5.05	47mm
12mm	od	x	9.5mm	id	1.25	16	48	1.29	4.31	
12mm	od	x	10mm	id	1	13	39	1.06	3.53	70mm
13mm	od	x	10mm	id	1.5	19	57	1.66	5.53	
14mm	od	x	10mm	id	2	25	75	2.31	7.69	
14mm	od	x	11mm	id	1.5	17	51	1.80	6.01	68mm
15mm	od	x	11mm	id	2	23	69	2.5	8.33	
15mm	od	x	12mm	id	1.5	16	48	1.95	6.49	75mm
16mm	od	x	12mm	id	2	21	63	2.69	8.97	85mm
16mm	od	x	13mm	id	1.5	14	42	2.09	6.97	100mm
18mm	od	x	14mm	id	2	18	54	3.08	10.26	
20mm	od	x	16mm	id	2	16	48	3.46	11.54	
22mm	od	x	17mm	id	2.5	18	54	4.69	15.62	140mm
25mm	od	x	20mm	id	2.5	16	48	5.41	18.03	200mm
28mm	od	x	22mm	id	3	17	51	7.21	24.04	140mm