

# Flexible Nylon Hose Tubing

## Product Description:

Flexible nylon tubing is manufactured from a flexible, plasticised, high viscosity extrusion grad of Polyamide 12 (PA12). The material is impact modified and Heat and UV stabilised.

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

## Main features:

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



## Application Examples:

Flexible nylon tubing 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.

## Specifications:

### **Operating temperatures**

Constant from - 40°C to 80°C

Intermittent to +110°C

Flexible nylon tubing conforms to the following standards: BS5409, S.M.M.T C2C (Type A), SAE J1844 (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 theoretic 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 PLASTIFCS/ Polyacrylonitrile (PAN), Bioplastics)

PA Polyamide

Nylon



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PA12 Flexible Metric Sizes					Wall mm	W/P	B/P	Kgs	kgs	Bend Radius
	od	x		id		bar	Bar	30m	100m	
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

# Flexible Nylon Hose Tubing

PA12 Flexible Imperial Sizes					W/P	B/P	kgs	kgs	Bend Radius
					bar	bar	30m	100m	
1/8"	od	x	.062"	id	44	132	0.18	0.61	
1/8"	od	x	.075"	id	35	105	0.16	0.52	1/4"
1/8"	od	x	.095"	id	20	60	0.10	0.34	3/8"

5/32"	od	x	.096"	id	34	102	0.24	0.79	
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3/16"	od	x	.107"	id	38	114	0.37	1.23	
3/16"	od	x	.117"	id	33	99	0.33	1.11	
3/16"	od	x	.137"	id	23	69	0.25	0.85	1/2"

1/4"	od	x	.150"	id	35	105	0.62	2.07	1/2"
1/4"	od	x	.170"	id	28	84	0.52	1.74	
1/4"	od	x	.190"	id	20	60	0.41	1.37	1"

5/16"	od	x	.182"	id	37	111	1.00	3.34	
5/16"	od	x	.212"	id	28	84	0.82	2.73	7/8"
5/16"	od	x	.242"	id	18	54	0.61	2.02	1.1/4"

3/8"	od	x	.225"	id	35	105	1.40	4.65	
3/8"	od	x	.250"	id	29	87	1.21	4.03	1.1/4"
3/8"	od	x	.265"	id	26	78	1.09	3.64	
3/8"	od	x	.295"	id	17	51	0.83	2.77	1.1/2"

1/2"	od	x	.340"	id	28	84	2.08	6.95	
1/2"	od	x	.375"	id	21	63	1.70	5.65	

5/8"	od	x	.500"	id	16	48	2.18	7.27	2.1/2"
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3/4"	od	x	.594"	id	16	48	3.25	10.84	4"
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1"	od	x	.813"	id	14	42	5.26	17.53	9"
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