



PA12 Polyamide Nylon Tubing

High-strength nylon tubing designed for pneumatic automation, industrial machinery, instrumentation, and other applications requiring higher pressure resistance and dimensional stability.

Smooth, low-friction tubing provides good wear, chemical, and corrosion resistance. Suitable for air and water service and designed for use with common pneumatic fittings when the tubing OD is correctly matched.

Standard colors: White, Black, Yellow Standard packaging: 100 m / 200 m reels

SPECIFICATIONS

Material: PA12 (Polyamide / Nylon)
 Fluid: Air, Water
 Operating Temperature: -15°C to +60°C
 Operating Pressure: Up to 30 kgf/cm², size dependent
 Burst Pressure: Up to 75 kgf/cm², size dependent
 Pressure ratings shown in table: at 20°C
 High tensile and compression strength
 Excellent fatigue resistance
 Excellent wear resistance; smooth, low-friction surface
 Good chemical and corrosion resistance
 Excellent electrical insulation

FEATURES & OPTIONS

- High mechanical strength and dimensional stability
- Weather-resistant, non-toxic and odorless
- Self-extinguishing characteristics
- White / Black / Yellow standard colors
- Custom colors, sizes and lengths available
- Suitable for pneumatic push-to-connect fittings

ORDER CODE

PA | 8X6 | 100 | BK
 PA12 Nylon Tube | Tube Dia | Length | Color
 WH = White • BK = Black • YL = Yellow

APPLICATION NOTE

Nylon is generally selected where higher pressure resistance and greater rigidity are preferred over the flexibility of PU tubing. Pressure ratings vary by tube size and temperature. Do not exceed the published rating for the selected size.

STANDARD SIZES

SIZE	O.D. (mm)	I.D. (mm)	LENGTH (m)	WORKING (bar)	BURST (bar)	BEND R. (mm)	KG/REE L
4x2.5	4	2.5	200	25	60	20	1.76
4x2	4	2	200	28	65	20	2.16
6x4	6	4	200	25	60	35	3.65
8x6	8	6	100	25	60	45	2.53
8x5.5	8	5.5	100	25	65	50	3.07
10x7	10	6.5	100	28	70	58	4.60
12x9	12	9	100	28	70	65	5.69
16x13	16	13	100	25	65	145	7.85
16x12	16	12	100	30	70	150	10.10
1/8	3.17	1.6	200	25	60	18	1.35
5/32	3.96	2.5	200	25	60	20	1.76
3/16	4.76	3	200	25	60	25	2.47
1/4	6.35	4.3	200	25	60	35	3.94
5/16	7.94	6	100	25	60	45	2.53
3/8	9.52	6.35	100	28	70	55	4.62
1/2	12.7	9.5	100	28	70	75	6.41
5/8	15.87	12	100	25	65	150	8.55

NOTE: Specifications are based on VidoAir nylon tubing catalog data. Pressure ratings are size-dependent and stated at 20°C. Actual performance depends on temperature, fluid, installation, and application conditions.