High Quality Pressure



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Nylaflow nylon tubing is high quality pressure tubing, available in several formulations. For applications that require toughness, resilience, a small bend radius and high burst strength, Nylaflow pressure tubing is a high performance, long-lasting alternative to copper, rubber, aluminum and other types of plastic tubing. Nylaflow tubing is available with custom markings, cut to length and custom packaging.

Types T and H Nylaflow tubing are thin and heavy wall, general purpose tubing made from type 6/6 nylon. These types offer the highest strength and are FDA compliant for use in food or beverage handling applications.

Nylaflow LM tubing is a premium high flex tubing available in two types: natural or black, which exhibits improved light stability. Type LM offers excellent chemical resistance and low moisture absorption.

Standard Nylon 6/6 mechanical grade tubing is designed for low pressure mechanical application such as fluid and air transmission. It is an extremely tough, low friction, high flexibility tubing that can be used for cable protectors or in short pieces as small bushings and washers. Airlite Plastics Co. standard nylon is ideal for a wide variety of other mechanical applications where higher pressure ratings are not required. Airlite Plastics Co. tubing resists abrasion and wear and is better than aluminum or steel. It has an extremely smooth inner surface with a very low coefficient of friction. Nylon 6/6 is produced on a custom basis and is available in colors, with custom markings and cut to length.

Type LP Nylaflow tubing is a low pressure, general purpose type 6 nylon tubing with carbon added for UV stability.

Both Nylaflow and Standard tubing can be cut with a sharp knife and flared hot or cold. They are odorless, tasteless and noncorrosive.

NYLAFLOW PRESSURE TUBING



ENGLISH SPECIFICATIONS Min. Bend Part No. 0.D. I.D. Wall Wall Tol. **Coil Length** Radius **0.D. Tolerance** Type H 4TD2-03420* 1/8" .079" .023" 3/8" +.002"-.004" ±.003" 1500' 4TD2-04420* 3/16" .111" .038" 5/8" +.002"-.008" ±.003" 1000' 4TD2-05420* 1/4" .150" .050" 11/4" +.002"-.008' ±.003" 500' 4TD2-06420* 5/16" .188" 2" +.002"-.008" ±.003" 250' .062" .075" 4TD2-07420* 3/8" .225" 21/2' +.002"-.010" ±.004" 250' Туре Т 4TD2-53420* 1/8" .095" .015" 5/8" +.002"-.004" ±.003" 1500' 4TD2-53820* 5/32" .106" .025" 3/4' +.002"-.004" ±.003" 1000' 4TD2-54420* 3/16" .137" .025" 1" +.002"-.008" ±.003" 1000' 4TD2-55420* 1/4" .190" .030" 11/4" +.002"-.008" ±.003" 500' 4TD2-56420* 5/16" .242" 2" .035' +.002"-.008" +.003''250' 4TD2-57420* .295" .040" 3" +.002"-.010" 3/8" ±.004" 250" Type LM Natural 4TE1-03420 .095" .015" 5/8' +.002"-.004" ±.002" 1/8" 1500' 4TE1-04420* 3/16" .137" .025' 1" +.002"-.006" ±.003" 1000 4TE1-05420* 1/4" .180" .035" 11/4" +.002"-.008" ±.003" 500' 4TE1-07420 5/16" .232" .040" 2" +.002"-.008" ±.003" 250' 4TE1-08420* 3/8" .275" .050" 3" +.002"-.010" ±.004" 250' 4TE1-10420* 1/2" .375 .0625" 41/2" +.005"-.010" ±.004" 150' Type LM Black 4TE1-03425 1/8" +.002"-.004" .095" .015" 5/8' ±.002" 1500' 3/16" .137" 025 ±.003" 1000' 4TF1-04425 1" +.002"-.006"4TE1-05425 1/4" .180" .035" 11/4" +.002"-.008" ±.003" 500' 4TE1-07425 5/16" .232" .040" 2" +.002"-.008" ±.003" 250 4TE1-08425* 3/8" .275" .050" 3" +.002"-.010" ±.004" 250' 4TE1-10425 1/2" .375" .0625" 41/2" +.005"-.010" ±.004" 150' Type LP 4TC2-03420 1/8" .095" .015" 5/8' +.002"-.008" ±.003" 1500' 4TC2-04420 3/16" .137" .025' +.002"-.006" ±.003" 1000' 1" 11/4" 4TC2-05420 1/4" .190" .030' +.003"-.011" ±.003" 500' 4TC2-06420 5/16" .242" .035" 2" +.003"-.011" ±.003" 250' 4TC2-07420 3/8" .295" .040" 3" +.003"-.016" ±.004" 250' 4TC2-09420 1/2" .376" .062" 41/2" +.003"-.019" ±.004" 150

*Stock sizes. All other sizes will have minimum quantities and set-up charges.



	Nylaflow T (Type 6/6)	Nylaflow H (Type 6/6)	Nylaflow LM (Type 11 or 12)	Nylaflow LM (Type 11 or 12)	Nylaflow LP (Type 6)	Nylaflow Tubing (Type 6/6)
Color	Natural	Natural	Natural	Black	Black	Natural
Melting Point	500 ± 5°F	$500 \pm 5^{\circ}F$	Type11-365 ± 10°F	Type 12-365 ± 10°F	420 ± 13°F	$500 \pm 5^{\circ}F$
Water Absorption at Equilbrium (%) at Saturation (%)	2.50 8.0	2.50 8.0	.9 1.9	.9 1.9	3.50 11.0	2.50 8.0
Suggest Temp. Range (°F)	-65 to +150	-65 to +150	-80 to +200	-80 to +200	-40 to +150	-65 to +150
Light Stabilized	No	No	No	Yes	Yes	No
Hoop Stress at 73°F Bone Dry (psi)	7,500	7,500	2,500	2,500	6,000	7,500
Hoop Stress at 73°F 50% R.H. (psi)	4,500	4,500	2,000	2,000	2,600	4,500
Hoop Stress at 73°F Full Saturation (psi)	3,100	3,100	1,850	1,850	2,100	3,100
Material's Flexural Elastic Modulus at 73°F. 50% R.H. (psi)	175,000 (conditioned)	175,000 (conditioned)	103,000	103,000	130,000	175,000 (conditioned)
Operating Pressure at 73°F. 50% R.H. (psi)	250	625	250	250	175	Not Pressure Rated
Bursting Pressure at 73°F 50% R.H. (psi)	1,000 Minimum	2,500 Minimum	1,000 Minimum	1,000 Minimum	700 Minimum	
Important Facts	Moderate cost. General Purpose nylon. Highest strength. Stiffest of all nylons. FDA compliant. Meets 3A Sanitary Standards. Carried in stock.	Moderate cost. General Purpose nylon. Highest strength. Stiffest of all nylons. FDA compliant. Meets 3A Sanitary Standards. Carried in stock.	Premium material. Excellent Flexibility. Best chemical resistance including resistance to ZnCl2: (zinc chloride). Lowest moisture pickup. Wide temperature range usage. Carried in stock.	Same as Natural except light stability improved.	General Purpose. Light stability.	Moderate Cost. General purpose nylon. Highest strength. Stiffest of all nylons. Meets 3A Sanitary Standards.
Typical Applications	Air lines, grease lines, vacuum lines, hydraulic lines, high pressure gases.	Air lines, grease lines, vacuum lines, hydraulic lines, high pressure gases.	Automotive fuel lines, lubrication lines, vacuum lines, air lines.	Automotive Fuel lines, lubrication lines, vacuum lines, air lines.	General purpose tubing. Excellent for farm machinery.	Mechanical applica- tions, such as conduit small sleeve bearings busings, insulators.
Chemical Resistance at 73°F Acids Alkalies Hydrocarbons-aromatic Hydrocarbons-aliphatic Ketones Ethers Alcohols Salts, neutral Freons Sunlight Zinc chloride	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Good Excellent Excellent Fair Poor	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Good Excellent Excellent Fair Poor	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Good Excellent Excellent Fair Good	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Excellent Good Excellent Excellent Good Good	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Good Excellent Excellent Excellent Good Poor	Good to pH-5 Good to pH-11 Excellent Excellent Excellent Good Excellent Excellent Fair Poor

Notes: Formula for calculating hoop stress of any nylon tube:

S = P(d+t) / 2t

S=hoop stress strength (psi)

d=inside diameter of tube (inches)

P=burst strength (psi)

t=wall thickness of tube (inches)



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