

NYLON TUBE - FLEXIBLE AND SEMI RIGID

Nylon is considered to be one of the most versatile engineering materials, being exceptionally stable, having good mechanical strengths, and resistance to chemical corrosion, including dilute acids and alkalines. Manufactured from type 12, nylon tube can be used in pneumatic control systems, fuel lines, lubrication lines and also within the food, beverage and brewing industry. Our manufacturing tolerances are within B.S. 5409 Part 1.

TYPE: FLEXIBLE NYLON TUBE							
IMPERIAL RANGE:							
TUBE O.D. (INCHES)	TUBE I.D. (INCHES)	WORKING PRESSURE (PSI)	WORKING PRESSURE (BAR)	BURSTING PRESSURE (PSI)	BURSTING PRESSURE (BAR)	MIN. BEND RADIUS (INCHES)	WEIGHT (KG/MTR)
1/8	0.075	710	45	2840	195	5/16	0.006
3/16	0.137	300	20	1220	80	1/2	0.010
1/4	0.170	370	25	1500	100	1/2	0.018
1/4	0.150	390	25	1580	105	3/8	0.021
5/16	0.212	370	25	1500	100	7/8	0.028
5/16	0.182	620	40	2480	170	3/4	0.033
3/8	0.250	400	25	1600	110	1	0.041
1/2	0.375	280	15	1140	75	1-1/2	0.057
5/8	0.500	220	15	880	60	2-1/2	0.072
3/4	0.594	220	15	900	60	4	0.960

OTHER SIZES AVAILABLE ON REQUEST

Working Pressures and Temperatures

The working pressures quoted within the chart are based on the short term burst pressure calculated at 20°C using a 4-1 safety factor. Working and burst pressures of a semi rigid nylon is approximately 60% higher than for flexible nylon. Maximum recommended continuous working temperature is 70°C, and occasional limited periods of up to 120°C. For elevated temperatures up to 110°C with intermittent use of up to 140°C for limited periods then a semi rigid nylon should be used. Any increase in temperature above 20°C will affect the short term burst pressure quoted - see graphs and example. Minimum operating temperature -40°C.

Coil lengths

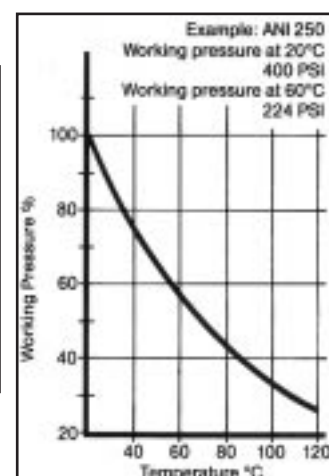
Standard coil length 30 metres, alternative coil lengths are available, further details may be obtained from our Technical Sales Office.

All our nylon tube is heat and light stabilised and can also be reproduced in a semi rigid grade of nylon in all the sizes listed above. Prefix Part No. SR/ANI/SR/ANM.

MANUFACTURING TOLERANCES

SIZES	ID ins	OD ins
Up to 1/4" (6mm) OD	+0.004 -0.004	+0.000 -0.003
5/16" (8mm) OD	+0.005	+0.000
to 1/2" (13mm) OD	-0.005	-0.004
5/8" (16mm) OD	+0.005	+0.005
to 1" (28mm) OD	-0.005	-0.005

All our range of tube sizes are available in Natural, Black, Red, Blue, Green, Yellow, Orange, Brown, Grey and Pink.



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CATALOGUE