SHPI



Nylon 6 Tubing

N6 series

Nylon 6 (PA6) is polyamide tubing for general industrial use, suitable for industrial pneumatic and fluid transfer systems.

Nylon 6 provides good mechanical strength and stiffness, along with good impact resistance, chemical resistance, and abrasion resistance.

Metric sizes are available in natural, black, and blue; imperial sizes are available in natural and black.

Key Features

- Mechanical strength and stiffness
- Impact resistance
- Chemical resistance
- Abrasion resistance

Applications

- General industrial pneumatic systems
- Pneumatic piping for automation equipment and industrial machinery
- Fluid transfer lines for industrial machinery and control systems

Regulatory Compliance

- RoHS compliant
- REACH compliant

Technical Specifications

Material	Polyamide 6 (PA6)
Operating Temp. Range	-40°C to 80°C (-40°F to 176°F)
Safety Factor	3 : 1

Tube Tolerance

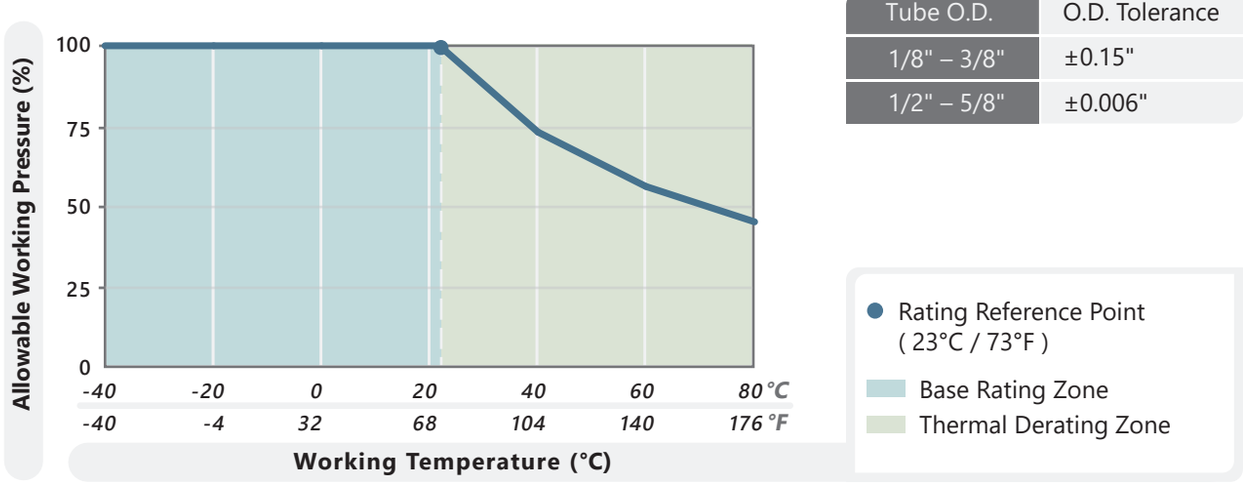
- Metric Sizes

Tube O.D.	O.D. Tolerance
4 – 10 mm	±0.10 mm
12 – 18 mm	±0.15 mm

- Imperial Sizes

Tube O.D.	O.D. Tolerance
1/8" – 3/8"	±0.15"
1/2" – 5/8"	±0.006"

Maximum Working Pressure Derating Curve



Specifications

- Metric Sizes - mm

Model Number	Tube OD	Tube ID	Wall Thickness	Weight	Max. Working Pressure 23℃ (73°F)	Min. Burst Pressure 23℃ (73°F)	Min. Bend Radius	Packing Length	Color		
+Color	mm	mm	mm	g/m	bar	bar	mm	m	NA	BK	BU
N6402525M_	4	2.5	0.75	8.8	38	114	30	25	□	■	
N6402550M_								50			
N64025100M_								100			
N64025200M_								200			
N6402025M_	4	2	1.00	10.8	55	165	25	25	□	■	
N6402050M_								50			
N64020100M_								100			
N64020200M_								200			
N6503025M_	5	3	1.00	14.4	42	126	30	25	□	■	
N6503050M_								50			
N65030100M_								100			
N65030200M_								200			
N6604025M_	6	4	1.00	18.1	33	99	45	25	□	■	■
N6604050M_								50			
N66040100M_								100			
N66040200M_								200			
N6806025M_	8	6	1.00	25.3	24	72	65	25	□	■	■
N6806050M_								50			
N68060100M_								100			
N6805525M_	8	5.5	1.25	30.5	30	90	60	25	□	■	
N6805550M_								50			
N68055100M_								100			
N6108025M_	10	8	1.00	32.5	18	54	110	25	□	■	
N6108050M_								50			
N61080100M_								100			
N6107525M_	10	7.5	1.25	39.5	23	69	80	25	□	■	
N6107550M_								50			
N61075100M_								100			
N6107025M_	10	7	1.50	46.0	29	87	75	25	□	■	
N6107050M_								50			
N61070100M_								100			
N6121025M_	12	10	1.00	39.7	15	45	165	25	□	■	
N6121050M_								50			
N61210100M_								100			
N6129025M_	12	9	1.50	56.9	23	69	105	25	□	■	
N6129050M_								50			
N61290100M_								100			
N6141125M_	14	11	1.50	67.7	20	60	180	25	□		
N6141150M_								50			
N61411100M_								100			
N6151225M_	15	12	1.50	73.1	18	54	170	25	□		
N6151250M_								50			
N61512100M_								100			
N6161325M_	16	13	1.50	78.5	15	45	140	25	□		
N6161350M_								50			
N61613100M_								100			
N6181425M_	18	14	2.00	115.6	19	57	180	25	□		
N6181450M_								50			
N61814100M_								100			

- Imperial Sizes - inch

Model Number	Tube OD	Tube ID	Wall Thickness	Weight	Max. Working Pressure 73°F (23℃)	Min. Burst Pressure 73°F (23℃)	Min. Bend Radius	Packing Length	Color	
+Color	inch	inch	inch	lbs/ft	psi	psi	inch		BK	NA
N618091500FT_	1/8	0.091	0.02	0.003	425	1700	0.50	500ft	■	□
N618091100M_								100m		
N618091200M_								200m		
N618073500FT_	1/8	0.073	0.03	0.004	625	2500	0.50	500ft	■	□
N618073100M_								100m		
N618073200M_								200m		
N6532106500FT_	5/32	0.106	0.03	0.005	475	1900	0.60	500ft	■	□
N6532106100M_								100m		
N6532106200M_								200m		
N6316140500FT_	3/16	0.140	0.02	0.006	300	1200	1.33	500ft	■	□
N6316140100M_								100m		
N6316140200M_								200m		
N6316118500FT_	3/16	0.118	0.03	0.009	450	1800	0.80	500ft	■	□
N6316118100M_								100m		
N6316118100M_								200m		
N614180250FT_	1/4	0.180	0.04	0.012	300	1200	1.30	250ft	■	□
N614180500FT_								500ft		
N614180100M_								100m		
N614180200M_								200m		
N614170250FT_	1/4	0.170	0.04	0.014	325	1300	1.15	250ft	■	□
N614170500FT_								500ft		
N614170100M_								100m		
N614170200M_								200m		
N6516233250FT_	5/16	0.233	0.04	0.017	300	1200	1.58	250ft	■	□
N6516233500FT_								500ft		
N651623350M_								50m		
N6516233100M_								100m		
N638275250FT_	3/8	0.275	0.05	0.025	300	1200	1.75	250ft	■	□
N638275500FT_								500ft		
N63827550M_								50m		
N638275100M_								100m		
N638250250FT_	3/8	0.250	0.06	0.030	450	1800	1.50	250ft	■	□
N638250500FT_								500ft		
N63825050M_								50m		
N638250100M_								100m		
N612375250FT_	1/2	0.375	0.06	0.043	300	1200	2.90	250ft	■	□
N612375500FT_								500ft		
N61237550M_								50m		
N612375100M_								100m		
N658500250FT_	5/8	0.500	0.06	0.056	175	700	5.00	250ft	■	□
N65850050M_								50m		
N658500100M_								100m		
N634594250FT_	3/4	0.594	0.08	0.081	175	700	8.40	250ft	■	□
N63459450M_								50m		
N634594100M_								100m		

Selected hardness levels, sizes, and colors may be available upon request. Please contact SHPI for availability.

Ordering Information

- Metric Sizes - mm

N6 40 25 25M NA

Material	
N6	Nylon PA 6

Outside Diameter	
40	4 mm
50	5 mm
60	6 mm
80	8 mm
10	10 mm
12	12 mm
14	14 mm
15	15 mm
16	16 mm
18	18 mm

Inside Diameter	
20	2 mm
25	2.5 mm
30	3 mm
40	4 mm
55	5.5 mm
60	6 mm
70	7 mm
75	7.5 mm
80	8 mm
90	9 mm
10	10 mm
11	11 mm
12	12 mm
13	13 mm
14	14 mm

Package Length	
25M	25 Meters
50M	50 Meters
100M	100 Meters
200M	200 Meters

Color Code	
NA	Natural
BK	Black
BU	Blue

- Imperial Sizes - inch

N6 18 091 500FT NA

Material	
N6	Nylon PA 6

Outside Diameter	
18	1/8"
532	5/32"
316	3/16"
14	1/4"
516	5/16"
38	3/8"
12	1/2"
58	5/8"
34	3/4"

Inside Diameter	
073	0.073"
091	0.091"
106	0.106"
118	0.118"
140	0.140"
170	0.170"
180	0.180"
233	0.233"
250	0.250"
275	0.275"
375	0.375"
500	0.500"
594	0.594"

Package Length	
250FT	250 Feet
500FT	500 Feet
50M	50 Meters
100M	100 Meters
200M	200 Meters

Color Code	
NA	Natural
BK	Black

Contact Info

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