

HOSES

Polyurethane & Polyethylene Tubing

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Details on page A1.



1PBN7

Standard, Metric and Extruded Polyurethane Tubing

- Hardness: Shore A98, except 4HL91 thru 4HL95

Strong, flexible tubing is 5 to 10 times more wear- and abrasion-resistant than rubber hose, and lighter weight. Use with push-to-connect fittings with no tube support. Nonmarking; resist algae growth. For air and water lines, robotics, carwash, and painting equipment. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Temp. Range	Tube Color	Item No.
Standard Polyurethane Tubing						
100 ft L						
3/32"	10 mm	1.75 mm	150 psi	-68° to 140 °F	Black	1PBL9
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Red	1CTF8
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Translucent Blue	4HL95
1/4"	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBN1
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTF9
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	4HL92
5/32"	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBN2
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTG1
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	4HL94
1/4"	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBN3
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTG2
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	4HL91
2 1/4"	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PBN4
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTG3
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	4HL97
250 ft L						
3/32"	4 mm	0.75 mm	200 psi	-68° to 140 °F	Black	1PBP6
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Red	1PBP8
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Translucent Blue	1PBN7
5/32"	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1PBR1
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	5MPV1
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	1PBN9
1/4"	6 mm	1 mm	180 psi	-68° to 140 °F	Black	5MPV0
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	1PBR2
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	5MPV3
2 1/4"	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1PBP2
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	5MPV2
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	5MPV2
5 mm	8 mm	1.5 mm	175 psi	-40° to 160 °F	Green	5MPV7
	8 mm	1.5 mm	175 psi	-40° to 160 °F	Yellow	5MPV8
	8 mm	1.5 mm	175 psi	-40° to 160 °F	Green	5MPW0
6.5 mm	10 mm	1.75 mm	150 psi	-40° to 160 °F	Green	5MPW0
	10 mm	1.75 mm	150 psi	-40° to 160 °F	Yellow	5MPW1
	10 mm	1.75 mm	150 psi	-40° to 160 °F	Yellow	5MPW1
Metric Polyurethane Tubing						
100 ft L						
2.5 mm	4 mm	0.75 mm	200 psi	-68° to 140 °F	Black	1PBR5
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Red	1CTG9
	4 mm	0.75 mm	200 psi	-68° to 140 °F	Translucent Blue	1PBR3
4 mm	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1PBR7
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	1CTH2
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	1PBR6
5 mm	6 mm	1 mm	180 psi	-68° to 140 °F	Black	1CTH1
	6 mm	1 mm	180 psi	-68° to 140 °F	Red	1PBR9
	6 mm	1 mm	180 psi	-68° to 140 °F	Translucent Blue	1PBR8
8 mm	8 mm	1.5 mm	175 psi	-68° to 140 °F	Black	1CTH4
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Red	1PBR8
	8 mm	1.5 mm	175 psi	-68° to 140 °F	Yellow	1CTH3

* Working pressure decreases as temp. increases.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure*	Temp. Range	Tube Color	Item No.
Standard Polyurethane Tubing						
6.5 mm	10 mm	1.75 mm	150 psi	-68° to 140 °F	Black	1PB12
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Red	1CTH6
	10 mm	1.75 mm	150 psi	-68° to 140 °F	Translucent Blue	1PB11
8 mm	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PB15
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1PB16
	12 mm	2 mm	150 psi	-68° to 140 °F	Translucent Blue	1PB14
250 ft L	12 mm	2 mm	150 psi	-68° to 140 °F	Black	1PB17
	12 mm	2 mm	150 psi	-68° to 140 °F	Red	1CTH7
	12 mm	2 mm	150 psi	-68° to 140 °F	Yellow	1CTH7
Extruded Polyurethane Tubing						
50 ft L						
3/32"	3/32"	3/32"	200 psi	-68° to 140 °F	Light Blue	2LZF2
	1/4"	3/8"	180 psi	-68° to 140 °F	Green	2LZG9
	1/4"	3/8"	180 psi	-68° to 140 °F	Light Blue	2LZF3
5/32"	1/4"	3/8"	180 psi	-68° to 140 °F	Red	2LZF8
	3/8"	1/2"	150 psi	-68° to 140 °F	Green	2LZH1
	3/8"	1/2"	150 psi	-68° to 140 °F	Light Blue	2LZF4
1/4"	3/8"	1/2"	150 psi	-68° to 140 °F	Red	2LZF9
	3/8"	1/2"	150 psi	-68° to 140 °F	Yellow	2LZG5
	1/2"	3/2"	150 psi	-68° to 140 °F	Green	2LZH2
2 1/4"	1/2"	3/2"	150 psi	-68° to 140 °F	Light Blue	2LZF5
	1/2"	3/2"	150 psi	-68° to 140 °F	Red	2LZF1
	1/2"	3/2"	150 psi	-68° to 140 °F	Red	2LZG1
100 ft L						
3/32"	1/4"	3/8"	180 psi	-68° to 140 °F	Green	2LZH5
	1/4"	3/8"	180 psi	-68° to 140 °F	Green	2LZH6
	2 1/4"	1/2"	3/2"	150 psi	-68° to 140 °F	Green
4 mm	6 mm	1 mm	200 psi	-68° to 140 °F	Green	2LZJ5
	6 mm	1 mm	175 psi	-68° to 140 °F	Green	2LZJ6
	6 mm	1 mm	175 psi	-68° to 140 °F	Green	2LZJ7
5 mm	6 mm	1 mm	180 psi	-68° to 140 °F	Green	2LZJ8
	6 mm	1 mm	180 psi	-68° to 140 °F	Green	2LZJ8
	6 mm	1 mm	180 psi	-68° to 140 °F	Green	2LZJ8
250 ft L						
3/32"	1/4"	3/8"	180 psi	-68° to 140 °F	Green	2LZH1
	1/4"	3/8"	180 psi	-68° to 140 °F	Green	2LZH2
	2 1/4"	1/2"	3/2"	150 psi	-68° to 140 °F	Green



Braided and Unbraided Polyurethane Tubing

Clear color. Designed to handle applications that require a tight bend radius. Remains flexible in subzero temperatures. Suitable for fluid transfer in food and beverage, environmental, chemical processing, industrial, peristaltic pump, and similar applications. To see standards for a product, go to Grainger.com and search for the item number.

Braided—Tough braid reinforcements can handle higher working pressures and allow greater flexibility than many other reinforced urethane tubings. Tubing is abrasion- and tear-resistant and is ideal for abrasive and viscous slurry transfer.

Unbraided—The material is chemical-, oil-, grease-, solvent-, tear-, and abrasion-resistant, with excellent wear properties.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Temp. Range	Brand	Item No.
Braided, Temp. Range: -100° to 175 °F						
50 ft L, Shore A: 85						
1 1/4"	1 3/4"	1/4"	95 psi		Tygothane	2DCH1
1 1/2"	2"	1/4"	80 psi		Tygothane	2DCH2
100 ft L, Shore A: 85						
1/8"	3/8"	1/16"	420 psi		Tygothane	2DCG3
1/4"	1/2"	1/16"	275 psi		Tygothane	2DCG4
3/8"	5/8"	1/16"	205 psi		Tygothane	2DCG5
1/2"	3/4"	1/16"	195 psi		Tygothane	2DCG6
5/8"	7/8"	1/16"	175 psi		Tygothane	2DCG7
3/4"	1 1/16"	3/32"	150 psi		Tygothane	2DCG8
1"	1 3/8"	3/16"	120 psi		Tygothane	2DCG9
Braided, Temp. Range: -80° to 160 °F						
10 ft L, Shore A: 90						
1/4"	3/8"	1/16"	200 psi		Usa Sealing	742U27
3/8"	1/2"	3/64"	200 psi		Usa Sealing	742U28
1/2"	2 1/2"	3/64"	200 psi		Usa Sealing	742U29
25 ft L, Shore A: 90						
1/4"	3/8"	1/16"	200 psi		Usa Sealing	742U24
3/8"	1/2"	3/64"	200 psi		Usa Sealing	742U25
1/2"	2 1/2"	3/64"	200 psi		Usa Sealing	742U26
50 ft L, Shore A: 90						
1/4"	3/8"	1/16"	200 psi		Usa Sealing	742U21
3/8"	1/2"	3/64"	200 psi		Usa Sealing	742U22
1/2"	2 1/2"	3/64"	200 psi		Usa Sealing	742U23
100 ft L, Shore A: 90						
1/4"	3/8"	1/16"	200 psi		Usa Sealing	742U18
3/8"	1/2"	3/64"	200 psi		Usa Sealing	742U19
1/2"	2 1/2"	3/64"	200 psi		Usa Sealing	742U20
Unbraided, Temp. Range: -100° to 175 °F						
100 ft L, Shore A: 82						
1/16"	1/8"	1/32"	70 psi		Tygothane	2LRE1
1/8"	3/16"	1/32"	45 psi		Tygothane	2LRE2
1/8"	1/4"	1/16"	74 psi		Tygothane	2LRE3
3/16"	1/4"	1/32"	34 psi		Tygothane	2LRE4
3/16"	3/16"	1/16"	56 psi		Tygothane	2LRE5
3/16"	3/8"	3/32"	70 psi		Tygothane	2LRE6

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Temp. Range	Brand	Item No.
Unbraided, Temp. Range: -80° to 150 °F						
10 ft L, Shore A: 90						
1/4"	3/8"	1/16"	28 psi		Tygothane	2LRE7
3/8"	1/2"	1/16"	42 psi		Tygothane	2LRE8
1/2"	3/4"	1/16"	58 psi		Tygothane	2LRE9
3/8"	1/2"	1/8"	70 psi		Tygothane	2LRF1
1/2"	3/4"	1/16"	36 psi		Tygothane	2LRF2
3/8"	1/2"	1/16"	34 psi		Tygothane	2LRF3
1/2"	3/4"	3/32"	45 psi		Tygothane	2LRF4
3/8"	1/2"	1/8"	54 psi		Tygothane	2LRF5
1/2"	3/4"	3/32"	40 psi		Tygothane	2LRF6
3/8"	1/2"	1/16"	26 psi		Tygothane	2LRF7
1/2"	3/4"	3/32"	36 psi		Tygothane	2LRF8
3/4"	1"	1/8"	46 psi		Tygothane	2LRF9
3/8"	1/2"	1/16"	24 psi		Tygothane	2LRG1
1/2"	3/4"	3/32"	32 psi		Tygothane	2LRG2
3/4"	1"	1/8"	38 psi		Tygothane	2LRG3
3/4"	1"	1/8"	33 psi		Tygothane	2LRG5
Unbraided, Temp. Range: -80° to 150 °F						
10 ft L, Shore A: 90						
1/16"	1/8"	1/32"	120 psi		Usa Sealing	742U14
1/8"	1/4"	1/16"	120 psi		Usa Sealing	742U15
1/4"	3/8"	1/16"	120 psi		Usa Sealing	742U16
3/8"	1/2"	1/16"	120 psi		Usa Sealing	742U17
25 ft L, Shore A: 90						
1/16"	1/8"	1/32"	120 psi		Usa Sealing	742U10
1/8"	1/4"	1/16"	120 psi		Usa Sealing	742U11
1/4"	3/8"	1/16"	120 psi		Usa Sealing	742U12
3/8"	1/2"	1/16"	120 psi		Usa Sealing	742U13
50 ft L, Shore A: 90						
1/16"	1/8"	1/32"	120 psi		Usa Sealing	742U06
1/8"	1/4"	1/16"	120 psi		Usa Sealing	742U07
1/4"	3/8"	1/16"	120 psi		Usa Sealing	742U08
3/8"	1/2"	1/16"	120 psi		Usa Sealing	742U09
100 ft L, Shore A: 90						
1/16"	1/8"	1/32"	120 psi		Usa Sealing	742U02
1/8"	1/4"	1/16"	120 psi		Usa Sealing	742U03
1/4"	3/8"	1/16"	120 psi		Usa Sealing	742U04
3/8"	1/2"	1/16"	120 psi		Usa Sealing	742U05



Flame-Retardant Polyethylene Tubing

Temp. range: -50° to 140°F. Shore A: 93, Shore D: 45. Flame-retardant tubing is engineered to help resist flames and prevent smoke in the event of a fire. To see standards for a product, go to Grainger.com and search for the item number.

Inside Dia.	Outside Dia.	Wall Thickness	Max. Pressure	Temp. Range	Tube Color	Tube Bend Radius	Item No.
250 ft L							
1/4"	3/8"	1/16"	100 psi		Black	3"	2LPZ7
3/8"</							