

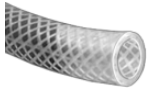
EVA, Polypropylene & Nylon Tubing

For information about tubing, see page 118.



For information about the chemical compatibility of the EVA, polypropylene, and nylon tubing on this page, go to mcmaster.com and search for 5632KAC.

High-Pressure White EVA Tubing



- Flexible
- Wall Hardness: Firm (Shore A: 80)
- Temperature Range: -30° to +125° F
- Tensile Strength: 1800 psi
- Use barbed fittings (see pages 156-165)

Reinforced with a polyester-rayon braid for strength in pressure applications, this semi-clear white tubing will remain flexible, even at low temperatures. Due to the braid reinforcement, this tubing is sometimes referred to as hose. It has excellent resistance to flex fatigue as well as stress cracking. Use with water, air, food and beverage, and ethylene glycol. Material is FDA CFR21 177.1350 compliant. Not rated for sterilization or vacuum.

To Order: Please specify length from the available lengths listed.

ID	OD	Wall	Bend Radius	Max. psi @ 70° F	Available Lengths, ft.	Per Ft. ♦
1/4"	15/32"	7/64"	3"	250	25, 50, 100	5632K31 .. \$0.79
5/16"	17/32"	7/64"	3"	250	10, 25, 50, 100	5632K32 .. .93
3/8"	19/32"	7/64"	4"	250	10, 25, 50, 100	5632K33 .. 1.01
1/2"	23/32"	7/64"	4"	250	10, 25, 50, 100	5632K34 .. 1.42
5/8"	7/8"	1/8"	5"	200	10, 25, 50, 100	5632K35 .. 1.81
3/4"	31/32"	7/64"	7"	150	10, 25, 50, 100	5632K36 .. 1.83
1"	15/16"	5/32"	9"	150	5, 10, 25, 50, 100	5632K38 .. 3.26
1 1/4"	1 1/16"	7/32"	12"	150	5, 10, 25, 50, 100	5632K41 .. 3.81
1 1/2"	2"	1/4"	30"	150	5, 10, 25, 50, 100	5632K42 .. 5.17
2"	2 7/16"	7/32"	36"	150	2, 5, 10, 25, 50	5632K43 .. 5.80

Rigid White Polypropylene Tubing



- Rigid
- Wall Hardness: Hard (Rockwell R: 90)
- Temperature Range: 40° to 200° F
- Tensile Strength: 4930 psi
- Use compression and push-to-connect fittings (see pgs. 165-179 and 185-201)

This semi-clear white polypropylene tubing is generally harder and stronger than polyethylene tubing. It is made without a plasticizer that can impart tastes and contaminate fluid passing through. Use with water, deionized water, air, and ethylene glycol. Material is FDA CFR21 177.1520 compliant. It can be sterilized with steam (autoclaving) and gas. Not rated for vacuum.

To Order: Please specify length from the available lengths listed.

ID	OD	Wall	Bend Radius	Max. psi @ 73° F	Available Lengths, ft.	Per Ft. ♦
1/8"	1/4"	1/16"	1"	250	25, 50, 100	5392K11 .. \$0.39
0.17"	1/4"	0.04"	1 1/2"	175	25, 50, 100	5392K12 .. .29
3/16"	5/16"	1/16"	1"	200	25, 50, 100	5392K13 .. .43
1/4"	3/8"	1/16"	1 1/4"	175	25, 50, 100	5392K14 .. .55
3/8"	1/2"	1/16"	2"	125	25, 50, 100	5392K15 .. .84
1/2"	5/8"	1/16"	3"	90	10, 25, 50, 100	5392K16 .. 1.16
5/8"	3/4"	1/16"	3"	80	10, 25, 50, 100	5392K17 .. 1.33
3/4"	1"	1/8"	6"	140	5, 10, 25, 50	5392K18 .. 2.12
1"	1 1/4"	1/8"	8"	100	5, 10, 25, 50	5392K19 .. 2.85

NSF/FDA-Compliant Black Polypropylene Tubing



- Flexible
- Wall Hardness: Hard (Shore D: 66)
- Temperature Range: -40° to +180° F
- Tensile Strength: 4100 psi
- Use compression fittings (see pages 165-179)

While similar to the white polypropylene tubing above, this opaque black polypropylene tubing does have one obvious advantage—it meets NSF 51 for use with food and beverage. Also use with water and air. The material is FDA CFR21 177.1520 compliant. It is harder, stronger, and more resistant to stress cracking than polyethylene tubing. It can be sterilized with radiation. Not rated for vacuum.

To Order: Please specify length from the available lengths listed.

ID	OD	Wall	Bend Radius	Max. psi @ 70° F	Available Lengths, ft.	Per Ft. ♦
1/8"	1/4"	1/16"	2 1/2"	272	25, 50, 100	9349T1 .. \$0.43
0.17"	1/4"	0.04"	2 1/2"	149	25, 50, 100	9349T2 .. .29
1/4"	3/8"	1/16"	3 3/4"	157	25, 50, 100	9349T3 .. .52
3/8"	1/2"	1/16"	5"	112	10, 25, 50, 100	9349T4 .. .50

Flexible Nylon Tubing



- Flexible
- Wall Hardness: Hard (Shore D: 70)
- Temp. Range: -60° to +200° F, unless noted
- Use compression fittings (see pages 165-179)

This tubing provides flexibility along with chemical and impact resistance. Not rated for sterilization. Vacuum rating is 28" Hg @ 72° F, unless noted.

General purpose tubing comes in opaque black and white, unless noted.

Choose-a-color tubing makes it easy to identify different lines within your system. Comes in opaque blue, green, red, and yellow.

To Order: Please specify length from the available lengths listed, as well as color where applicable.

Inch

ID	OD	Wall	Bend Radius	Max. psi @ 75° F	Available Lengths, ft.	Per Ft. ♦
General Purpose						
0.093"	1/8"	0.016"	1/2"	270	25, 50, 100	5548K61 .. \$0.17
0.106"	5/32"	0.025"	1/2"	350	25, 50, 100	5548K62 .. .25
0.138"	3/16"	0.025"	5/8"	260	25, 50, 100	5548K63 .. .37
0.15"	1/4"	0.05"	—	—	25, 50, 100	5548K918 * .. .92
0.17"	1/4"	0.04"	1"	330	25, 50, 100	5548K64 .. .53
0.18"	1/4"	0.035"	1 1/4"	290	25, 50, 100	5548K65 .. .39
0.182"	5/16"	0.065"	—	—	10, 25, 50, 100	5548K923 * .. 1.22
0.232"	5/16"	0.04"	1 1/2"	240	25, 50, 100	5548K66 .. .64
0.242"	5/16"	0.035"	—	—	25, 50, 100	5548K928 * .. .91
0.275"	3/8"	0.05"	2"	250	10, 25, 50, 100	5548K67 .. .79
0.305"	3/8"	0.035"	—	—	10, 25, 50, 100	5548K934 * .. 1.04
0.38"	1/2"	0.062"	3 1/2"	240	10, 25, 50, 100	5548K68 .. 1.30
0.43"	1/2"	0.035"	—	—	10, 25, 50, 100	5548K939 * .. 1.30
Choose-a-Color						
0.093"	1/8"	0.016"	1/2"	270	50, 100	5635K21 .. .23
0.106"	5/32"	0.016"	1/2"	350	50, 100	5635K22 .. .25
0.18"	1/4"	0.035"	1 1/4"	290	25, 50, 100	5635K23 .. .38
0.275"	3/8"	0.05"	2"	250	10, 25, 50, 100	5635K24 .. .78
3/8"	1/2"	0.062"	3 1/2"	240	10, 25, 50, 100	5635K25 .. 1.30

* Temp. range is -94° to +176° F. Not rated for vacuum. Only available in white.

Metric

ID, mm	OD, mm	Wall, mm	Bend Radius	Max. psi @ 75° F	Available Lengths, ft.	Per Ft. ♦
General Purpose						
1.8	3	0.6	3/8"	410	25, 50, 100	50405K22 .. \$0.29
2.7	4	0.65	1/2"	350	25, 50, 100	50405K23 ▲ .. .25
3	5	1	3/4"	420	25, 50, 100	50405K24 ▲ .. .52
4	6	1	1 1/4"	340	25, 50, 100	50405K25 ▲ .. .45
6	8	1	1 1/2"	250	25, 50, 100	50405K26 .. .61
8	10	1	2"	190	10, 25, 50, 100	50405K27 .. .79
10	12	1	2 1/2"	150	10, 25, 50, 100	50405K28 .. 1.29

▲ Also available in gray and red.

High-Pressure White Nylon Tubing



- Flexible
- Wall Hardness: Hard (Rockwell R: 108)
- Temperature Range: -60° to +200° F
- Tensile Strength: 7685 psi
- Use compression and push-to-connect fittings (see pgs. 165-179 and 185-201)

Harder walls on this tubing allow it to withstand twice as much pressure as the other nylon tubing on this page. Use with water, air, and ethylene glycol. Not rated for sterilization. Vacuum rating is 28" Hg @ 75° F.

To Order: Please specify length from the available lengths listed.

ID	OD	Wall	Bend Radius	Max. psi @ 75° F	Available Lengths, ft.	Per Ft. ♦
0.073"	1/8"	0.026"	5/16"	800	25, 50, 100	9685T1 .. \$0.37
0.109"	3/16"	0.039"	7/16"	800	25, 50, 100	9685T2 .. .61
0.15"	1/4"	0.05"	9/16"	800	25, 50, 100	9685T3 .. .79
0.225"	3/8"	0.075"	3/4"	800	10, 25, 50, 100	9685T4 .. 1.69
0.35"	1/2"	0.075"	1 3/4"	530	5, 10, 25, 50	9685T5 .. 2.66

♦ Prices are 15-25% lower when you order the maximum continuous length (last available length listed).