



*EPA and CARB
certified for low
permeation
emission*



Designed for Gasoline-Powered, Handheld Equipment

Specially designed to meet new government regulatory standards to reduce the harmful health effects of ozone and carbon monoxide, Tygon® LP-1500 tubing low permeation fuel tubing is an environmentally responsible tubing for fuel line applications in small engines and lawn & garden equipment (lawn mowers, snow blowers, chain saws, line trimmers, gas leaf blowers, etc.).

The tubing's robust, multi-layer design features barriers to minimize permeation, with a chemical and fuel resistant inner layer and a UV resistant outer jacket to prevent premature aging. Offering superior clarity and flexibility, Tygon LP-1500 tubing provides easy observation of fuel flow and is ideal for hand-held outdoor power equipment.

Regulatory Compliance

Tygon® LP-1500 tubing is EPA and CARB certified to meet permeation emission standards of 15g/m²/day.

Features and Benefits

- chemical and fuel resistant inner layer
- UV resistant outer jacket to prevent premature aging
- wide temperature range from -40°F to 185°F (-40°C to 85°C)
- high abrasion, cut and tear resistant for longer service life
- highly flexible and kink resistant
- tight tolerances for better fitting retention and better seal
- compatible with E-10 ethanol blend fuel

Typical Applications

- Hand-held power equipment
- Small utility equipment
- Fluid power motors
- other small engine fuel lines

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Tygon[®] LP-1500 Standard Sizes

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
TY2,38HE4,76	2,38 mm (3/32")	4,76 mm (3/16")	1,19 mm (3/64")	12,7 mm	11 bar	760 mmHg
TY3,18HE6,35	3,18 mm (1/8")	6,35 mm (1/4")	1,59 mm (1/16")	15,9 mm	7,2 bar	760 mmHg
TY6,35HE9,53	6,35 mm (1/4")	9,53 mm (3/8")	1,59 mm (1/16")	63,5 mm	4,4 bar	760 mmHg
TY12,7HE19,05	12,7 mm (1/2")	19,05 mm (3/4")	3,18 mm (1/8")	127 mm	3,4 bar	760 mmHg

*Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

Typical Physical Properties of Tygon[®] LP-1500 Tubing

Property	ASTM Method	Value of Rating	Regulatory Compliance	
Durometer Hardness	D2240	85° Shore A, 15s	40 CFR 1060 EPA Regulation	Conforms
Color	-	Natural	CA SORE Chapter 15, Article I	Conforms
Tensile Strength	D412	34.5 MPa (5,000 psi)	CA Component Executive Order Number	Q-19-114
Ultimate Elongation	D412	400,00%	CA Component Executive Order Size Limitations	3/32" ID and above
Tear Resistance	D1004	98.0 kN/m (560 lb-f/in)	EPA Certification Number	5GN-ENAPNR-OA-04
Specific Gravity	D792	1,18	EPA Certification Size Limitations	2/25" ID and above
Compression Set Constant Deflection @ 70°C (158°F) for 22 hrs.	D395 Method B	35,00%	ANSI B175.2 Annex D	Conforms
Tensile Stress @ 100% Elongation	D412	6.9 MPa (1,000 psi)		
Tensile Set @ 75% Elongation	D412	35		
Maximum Service Recommended Operating Temperature	-	85°C (185°F)		
Low Temperature Flexibility	D380	-40°C (-40°F)		
Water Absorption, % 24 hrs. @ 23°C	D570	0.90		

Unless otherwise noted, all tests were conducted at room temperature 23°C (73°F). Values shown were determined on 1.905 mm (0,075") thick extruded strip or 1.905 mm (0,075") thick molded ASTM plaques or molded ASTM durometer buttons.

Product Characteristics

Opacity	Flammability Rating	Fuel Permeation (total tube), g/m ² /d	
Translucent	UL94 HB	CA Phase II, 40°C	<15
		CE 10, 40°C	<15

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