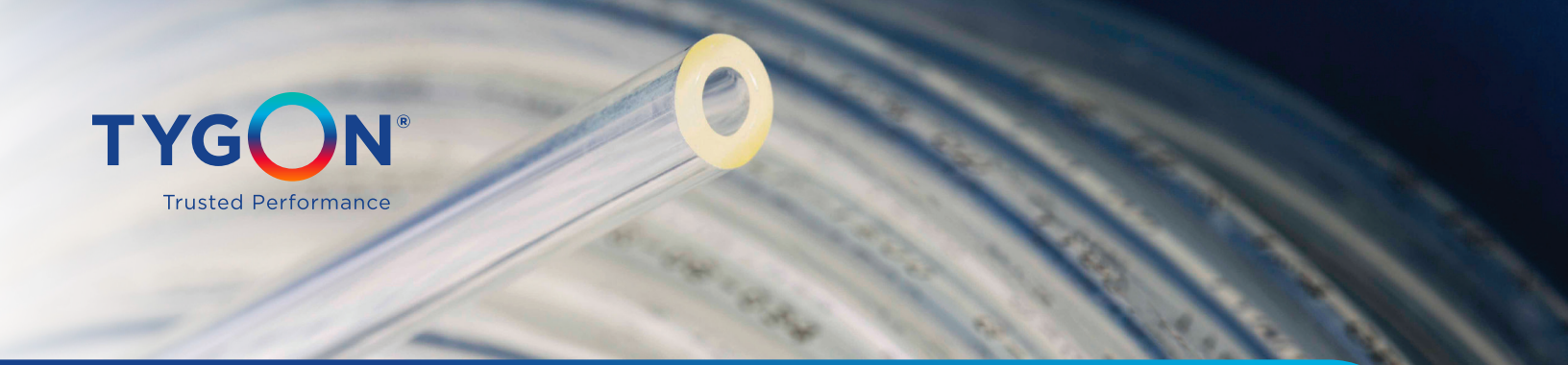
TYGON®
Trusted Performance



Tygon® Power LP-1500 Tubing

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® Power LP-1500 tubing low permeation fuel tubing is an environmentally responsible tubing for fuel line applications in small engines and lawn and 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® Power LP-1500 tubing provides easy observation of fuel flow and is ideal for hand-held outdoor power equipment.

Typical Applications

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

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

Regulatory Compliance

- EPA and CARB certified to meet permeation emission standards of 15g/m2/day

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Tygon® Power LP-1500 Tubing

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Part Number	ID	OD	Wall Thickness	Length	Min. Bend Radius	Max. Working Pressure	Vacuum Rating
	(in.)	(in.)	(in.)	(ft.)	(in.)	73°F (psi)*	inHg at 73°F
AY700165	3/32	3/16	3/64	50	1/2	160	29.9
AY700007	1/8	1/4	1/16	50	5/8	105	29.9
AY700017	1/4	3/8	1/16	50	2-1/2	65	29.9
AY700038	1/2	3/4	1/8	50	5	50	29.9

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

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15s	D2240	85
Tensile Strength, psi (MPa)	D412	5,000 (34.5)
Ultimate Elongation, %	D412	400
Tear Resistance, lb-f/in (kN/m)	D1004	560 (98.0)
Specific Gravity	D792	1.18
Water Absorption, % at 73°F (23°C) for 24 hrs.	D570	0.90
Compression Set Constant Deflection, % at 158°F (70°C) for 22 hrs.	D395 Method B	35
Maximum Recommended Operating Temp., °F (°C)	—	185 (85)
Tensile Stress, at 100% Elongation, psi (MPa)	D412	1,000 (6.9)
Tensile Set, at 75% Elongation	D412	35
Color	—	Natural
Low Temperature Flexibility, °F (°C)	D380	-40 (-40)

Unless otherwise noted, all tests were conducted at room temperature 73°F. Values shown were determined on 0.075" thick extruded strip, 0.075"thick molded ASTM plaques or molded ASTM durometer buttons.

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.

Product Characteristics

Opacity	Flammability Rating	Fuel Permeation (total tube), g/m²/d	
Translucent	UL 94 HB	CA Phase II, 40°C	<15
		CE 10, 40°C	<15

Regulatory Compliance

40 CFR 1060 EPA Regulation	Conforms
CA SORE Chapter 15, Article I	Conforms
CA Component Executive Order Number	Q-19-114B
CA Component Executive Order Size Limitations	3/32" ID and Above
EPA Certification Number	TSGNPLINE150-004
EPA Certification Size Limitations	2/25" ID and Above
ANSI B175.2 Annex D	Conforms

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