

EXCELLENCE  
BY DESIGN

# Tygon® LP-I200

## Clear, High-Performance Fuel Tubing for Small Engines

### Designed to Meet Regulatory Standards for Clean Air

Tygon® LP-I200 Low Permeation Fuel Tubing is specially designed to meet new EPA and CARB evaporative emission standards of 15 g/m<sup>2</sup>/day. The patent-pending design and robust multi-layer construction offers superior fitting retention and resistance to swelling, hardening and cracking caused by hydrocarbon-based fluids.

Available in both standard and custom sizes and colors, Tygon LP-I200 is ideal for lawn and garden power equipment, small engine fuel lines, and lubricating oil and grease transfer lines. It meets ANSI B175.1 Annex D standard.

### Available Sizes

Tygon LP-I200 is available in five standard stock sizes:

- 2.032 mm (0.080") I.D. x 3.556 mm (0.140") O.D.
- 2.381 mm (3/32") I.D. x 4.762 mm (3/16") O.D.
- 3.175 mm (1/8") I.D. x 6.350 mm (1/4") O.D.
- 4.762 mm (3/16") I.D. x 7.937 mm (5/16") O.D.
- 6.350 mm (1/4") I.D. x 9.525 mm (3/8") O.D.

### Typical Applications

- Brushcutters
- Chainsaws
- Cut-off machines
- Earth/ice augers
- Edgers
- Engine drills
- Hedge and weed trimmers
- Leaf blowers
- Pole pruners
- Split-boom products
- Tillers



### Features and Benefits

- **Transparent**
  - Easy to diagnose fuel flow or leak problems
- **High purity fluoropolymer inner liner**
  - Reduces the risk of fuel system fouling from extractable solids found in typical rubber products
- **Superior fuel resistance and compatible with ethanol-enhanced fuels**
  - Worry-free operation
- **Excellent fitting retention**
  - 100% seal for optimum safety
- **Superior flexibility**
  - Easy assembly, routing and optimized fuel pick-up
- **Excellent elasticity**
  - Prevents "necking" from over-stretching during installation
- **Submersible\***
  - Applicable with most fuel applications\*
- **UV resistant: Meets ANSI B175.1 Annex D Standard UV testing**
  - Durable; long service life
- **EPA and CARB approved**
  - Meets low permeation standards of 15 g/m<sup>2</sup>/day

\*Not recommended for reuse in higher temperature applications.

## Tygon® LP-I200

Saint-Gobain Part Number	I.D. mm (in.)	O.D. mm (in.)	Wall Thickness mm (in.)	Length m (feet)	Min. Bend Radius mm (in.)	Max. Working Pressure at 23°C (73°F) bar (psi)*	Vacuum Rating at 23°C (73°F) mm Hg (in. Hg)
ALR00700	2.032 (0.080)	3.556 (0.140)	0.762 (0.030)	15.24 (50)	5.715 (1/4)	4.8 (70)	1×10 <sup>-4</sup> (29.9)
ALR00165	2.381 (3/32)	4.762 (3/16)	1.194 (0.047)	15.24 (50)	6.350 (1/4)	4.5 (65)	1×10 <sup>-4</sup> (29.9)
ALR00007	3.175 (1/8)	6.350 (1/4)	1.588 (1/16)	15.24 (50)	9.525 (3/8)	4.1 (60)	1×10 <sup>-4</sup> (29.9)
ALR00012	4.762 (3/16)	7.937 (5/16)	1.588 (1/16)	15.24 (50)	12.700 (1/2)	3.1 (45)	1×10 <sup>-4</sup> (29.9)
ALR00017	6.350 (1/4)	9.525 (3/8)	1.588 (1/16)	15.24 (50)	17.145 (5/8)	2.1 (30)	1×10 <sup>-4</sup> (29.9)

## Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness (Shore A), 15 Sec	D2240	78
Tensile Strength, MPa (psi)	D412	24.8 (3,600)
Ultimate Elongation, %	D412	475
Tear Resistance, kN/m (lb-f/in.)	D1004	87.5 (500)
Specific Gravity	D792	1.27
Water Absorption, % 24 hrs. @ 23°C (73°F)	D570	0.7
Compression Set Constant Deflection, % @ 70°C (158°F) for 22 hrs.	D395	35
Maximum Recommended Operating Temp. °C (°F)	—	82 (180)
Tensile Stress @ 100% Elongation, MPa (psi)	D412	4.6 (668)
Tensile Set, %	D412	90
Color	—	Natural
Brittleness by Impact, °C (°F)	D746-98	< -90 (< -130)
Low Temp Flex, °C (°F)	—	-40 (-40)

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, 1.905 mm thick (0.075") molded ASTM plaques or molded ASTM durometer buttons. Size of tubing tested is 3.175 mm (1/8") I.D. x 6.350 mm (1/4") O.D.

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.

TYGON® LP-I200 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

## Product Characteristics

Opacity	Flammability Rating	Fuel Permeation (total tube), g/m <sup>2</sup> /d	
Translucent	UL 94 HB	CA Phase II, 40°C	7
		CE 10, 23°C	10

## Regulatory Compliance

40 CFR 1060 EPA Regulation	Conforms
CA SORE Chapter 15, Article I	Conforms
CA Component Executive Order Number	Q-14-003
EPA Certification Number	EPA-SGN-I20
ANSI B175.1 Annex D Standard	Conforms

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**NOTE:** The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

Tygon® is a registered trademark.