

EXCELLENCE BY DESIGN

Tygon® LP-1200

Clear, High-Performance Fuel Tubing for Small Engines

Designed to Meet Regulatory Standards for Clean Air

Tygon® LP-1200 Low Permeation Fuel Tubing is specially designed to meet new EPA and CARB evaporative emission standards of 15g/m²/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-1200 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-1200 is available in five standard stock sizes:

- 0.080" (2.032 mm) I.D. x 0.140" (3.556 mm) O.D.
- 3/32" (2.381 mm) I.D. x 3/16" (4.762 mm) O.D.
- 1/8" (3.175 mm) I.D. x 1/4" (6.350 mm) O.D.
- 3/16" (4.762 mm) I.D. x 5/16" (7.937 mm) O.D.
- 1/4" (6.350 mm) I.D. x 3/8" (9.525 mm) 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 15g/m²/day

*Not recommended for reuse in higher temperature applications.



Tygon® LP-1200

www.processsystems.saint-gobain.com

Tygon® LP-1200

| Saint-Gobain Part Number | I.D. (in.) | O.D. (in.) | Wall Thickness (in.) | Length (feet) | Min. Bend Radius (in.) | Max. Working Pressure at 73°F (psi) | Vacuum Rating mm of Mercury (Hg) at 73°F |
|--------------------------|------------|------------|----------------------|---------------|------------------------|-------------------------------------|--|
| ALR00700 | 0.080 | 0.140 | 0.030 | 50 | 0.225" | 70" | 29.9 |
| ALR00165 | 3/32 | 3/16 | 0.047 | 50 | 0.250 | 65 | 29.9 |
| ALR00007 | 1/8 | 1/4 | 1/16 | 50 | 0.375 | 60 | 29.9 |
| ALR00012 | 3/16 | 5/16 | 1/16 | 50 | 0.500 | 45 | 29.9 |
| ALR00017 | 1/4 | 3/8 | 1/16 | 50 | 0.675" | 30" | 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), 15 Sec | D2240 | 78 |
| Tensile Strength, psi (MPa) | D412 | 3,600 |
| Ultimate Elongation, % | D412 | 475 |
| Tear Resistance, lb-f/in. (kN/m) | D1004 | 500 |
| Specific Gravity | D792 | 1.27 |
| Water Absorption, % 24 hrs. @ 23°C | D570 | 0.7 |
| Compression Set Constant Deflection, % @ 158°F (70°C) for 22 hrs. | D395 | 35 |
| Brittleness Temp., °F (°C) | – | -20 (-28) |
| Maximum Recommended Operating Temp. °F (°C) | – | 180 (82) |
| Tensile Stress @ 100% Elongation, psi (MPa) | D412 | 668 |
| Tensile Set, % | D412 | 90 |
| Color | – | Translucent |
| Brittleness by Impact, °F (°C) | D746-98 | < -130 (-90) |
| Low Temp Flex, °F (°C) | – | -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. Size of tubing tested is 1/8" I.D. x 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-1200 TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

Product Characteristics

| Opacity | Flammability Rating | Fuel Permeation (total tube), g/m ² /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 | – |
| EPA Certification Number | EPA-SGN-120 |



Saint-Gobain Performance Plastics

2664 Gilchrist Road
Akron, OH 44305

1-800-798-1554
Tel: (330) 798-9240
Fax: (330) 798-6968

www.processsystems.saint-gobain.com

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.