



Tygon[®] 2375 IB

High-Pressure Chemical Transfer Applications

Chemical Resistant to Minimize Fluid Alteration and Loss

In the world of chemical transfer, chemical compatibility and flexibility are the two most important performance criteria to ensure performance optimization. Tygon 2375 IB, which is unaffected by most chemical sanitizers and cleaners, is specially engineered to deliver just that outstanding performance in an environment where harsh chemicals are used. Because of its robust polyester braid reinforcement construction, Tygon 2375 IB holds a full vacuum rating, ideal for suction/delivery side of any chemical transfer.

Flexibility Without the Use of Plasticizers

Until now, clear and flexible tubing was restricted from use in many applications due to the concern of plasticizer extraction. Tygon 2375 IB is not manufactured with any plasticizers. This unique tubing uses the latest in polymer technology to provide a clear (between braid) and flexible tubing choice for sensitive fluid transfer applications.

Regulatory Compliance

- REACH
- RoHS



Features and Benefits

- Outstanding chemical resistance
- Non-DEHP
- Plasticizer-free
 - Extends tubing life and reduces maintenance costs over plasticized products
- Braid reinforcement for elevated working pressures
- Safer disposal
 - Releases no harmful and corrosive hydrogen chloride gas
- Smooth inner surface
 - Provides better flow and inhibits particulate buildup
- Clear tubing for easier and better observation

Typical Applications

- Detergent transfer for laundry
- Dishwashing cleaning chemical transfer lines
- Warewashing cleaning chemical transfer lines
- Car washing equipment chemical transfer lines
- Harsh chemical transfer
- Solvent transfers

Tygon® 2375 IB

| Part Number | ID | OD | Wall Thickness | Length | Min. Bend Radius | Max. Working Pressure at 22°C (73°F) | Vacuum Pressure Rating at 22°C (73°F) |
|-------------|------------|------------|----------------|-----------|------------------|--------------------------------------|---------------------------------------|
| | mm (in) | mm (in) | mm (in) | m (ft) | mm (in) | bar (psi) | mmHg (inHg) |
| APC1S1542 | 6 (0.236) | 12 (0.472) | 3 (0.118) | 15 (49.2) | 25.4 (1) | 15.5 (225) | 760 (29.9) |
| APC1S2138 | 10 (0.394) | 16 (0.630) | 3 (0.118) | 15 (49.2) | 50.8 (2) | 11.7 (170) | 760 (29.9) |
| APC1S2480 | 12 (0.472) | 18 (0.709) | 3 (0.118) | 15 (49.2) | 95.25(3.75) | 13.1 (190) | 760 (29.9) |
| APC1S2481 | 16 (0.630) | 22 (0.866) | 3 (0.118) | 15 (49.2) | 101.6 (4) | 11.3 (165) | 760 (29.9) |

*Working pressures are calculated at a 1:4 ratio relative to burst pressure using ASTM D1599.

Typical Physical Properties

| Property | ASTM Method | Value or Rating |
|---|---------------|-----------------|
| Durometer Hardness (Shore A) 15 sec | D2240 | 77 |
| Color | — | Clear |
| Tear Resistance, kN/m (lb-f/inch) | D1004 | 42.0 (240) |
| Specific Gravity | D792 | 0.88 |
| Water Absorption, % at 23°C (73°F) for 24 hrs. | D570 | 0.04 |
| Compression Set Constant Deflection, % at 70°C (158°F) for 22hrs. | D395 Method B | 100 |
| Maximum Recommended Operating Temp., °C (°F) | — | 54 (130) |
| Low Temp. Flexibility, °C (°F) | — | -75 (-103) |

Relative Chemical Resistance Properties*

| Tubing | Acids | | | Bases | | | Salts | Alcohols | Ketones |
|----------------------|-------|------|------|-------|------|------|-------|----------|---------|
| | Conc. | Med. | Weak | Conc. | Med. | Weak | | | |
| Tygon® 2375 IB | F | E | E | E | E | E | E | E | F |
| Fluoroelastomers | E | E | E | U | F | F | E | F | U |
| Urethane | U | U | U | U | F | F | F | U | U |
| PVC | F | E | E | E | E | E | E | F | U |
| Thermoplastic Rubber | U | F | F | F | E | E | E | F | U |
| Neoprene | U | F | E | E | E | E | E | E | U |
| Nitrile Rubber | F | F | E | U | E | E | E | E | U |
| Silicone | U | U | U | U | F | F | F | F | U |
| EVA | U | F | E | F | E | E | E | E | U |

E = Excellent F = Fair U = Unsatisfactory *All tests conducted at room temperature.

Note: For detailed specific chemical resistance information, please visit www.processsystems.saint-gobain.com and search for chemical resistance properties.

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 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 pressure, 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.

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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.

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