

Saint-Gobain Tygon® E-1000 Ultra-Soft Laboratory Tubing

Category : Polymer , Thermoplastic

Material Notes:

Soft and flexible, Tygon® E-1000 Non-DEHP laboratory tubing delivers the same performance in a formulation that contains non-DEHP [Bis (2-ethylhexyl) phthalate] plasticizers. The market demand and certain global and regional requirements such as Europe's REACH, EU food directives and California Prop 65 motivated Saint-Gobain to develop tubing products that contain a globally accepted substitute for DEHP. Tygon E-1000 Non-DEHP laboratory tubing has been tested rigorously to ensure that it meets the same physical standards, including low temperature and corrosive chemical resistance as the old Tygon® R-1000 tubing. Tygon® E-1000 tubing stays flexible at temperatures as low as -67°F (-55°C). Its smooth bore facilitates easy cleaning and helps prevent possible buildup. Do not autoclave.

Features and Benefits Ultra-soft and flexible Performs well at low temperatures (to -67°F) Excellent for use in low-torque pump application

Regulatory Information: This product complies with NSF 51 and FDA requirements. Unless otherwise noted, all tests were conducted at room temperature. Values shown were determined on 1.9 mm thick extruded strip or 1.9 mm thick molded ASTM placques or molded ASTM durometer buttons. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Tygon-E-1000-Ultra-Soft-Laboratory-Tubing.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-----------|
| Specific Gravity | 1.10 g/cc | 1.10 g/cc | ASTM D792 |
| Water Absorption | 0.29 % | 0.29 % | ASTM D570 |
| | @Temperature 22.8 Å°C, Time 86400 sec | @Temperature 73.0 Å°F, Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|--------------------|
| Hardness, Shore A | 40 | 40 | ASTM D2240 |
| | @Time 15.0 sec | @Time 0.00417 hour | |
| Tensile Strength | 7.412 MPa | 1075 psi | ASTM D412 |
| Tensile Strength, Yield | 1.97 MPa | 286 psi | |
| | @Strain 100 % | @Strain 100 % | |
| Elongation at Break | 435 % | 435 % | ASTM D412 |
| Tear Strength | 18.2 kN/m | 104 pli | ASTM D1004 |
| Compression Set | 55 % | 55 % | ASTM D395 Method B |
| | @Temperature 70.0 Å°C, Time 79200 sec | @Temperature 158 Å°F, Time 22.0 hour | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-----------|-----------|-----------|
| Maximum Service Temperature, Air | 51.7 Â°C | 125 Â°F | |
| Brittleness Temperature | -55.0 Â°C | -67.0 Â°F | ASTM D746 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------|
| Transmission, Visible | 90 % | 90 % | Clear, but value not quantified |

| Compliance Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| FDA | Yes | Yes | |
| NSF | Yes | Yes | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | Clear | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China