

Saint-Gobain Tygon® 2001 Plasticizer Free Tubing Formulation

Category : Polymer , Thermoplastic

Material Notes:

Description: Tygon® 2001: Tygon® Plasticizer Free Tubing is a uniquely engineered product that offers the low compression set properties of a thermoset rubber. Tygon® Plasticizer Free Tubing provides the most flexibility, highest temperature resistance and longest pump life available in a clear, plasticizer / oil free tubing. It is ideal for a broad range of applications including peristaltic pump applications, soap and detergent dispensing, water purification lines, food contact applications and chemical transfer. This uniquely engineered tubing will not embrittle or crack prematurely like other tubings that contain plasticizer or extender oils, benefiting the user with less downtime and tubing changes.

Features/Benefits: Plasticizer and oil free -- does not contaminate fluids Superior flex life in peristaltic pumps Chemically resistant to a wide range of fluids Temperature resistant from -108°F to 135°F Clear for easy visual flow monitoring Meets FDA criteria for food contact Ideal for a broad range of demanding applications including peristaltic pump systems, soap and detergent dispensing, ink transfer, water purification lines, food and beverage, and chemical transfer.

Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Tygon-2001-Plasticizer-Free-Tubing-Formulation.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|------------|--------------------------------|
| Specific Gravity | 0.880 g/cc | 0.880 g/cc | ASTM D792-00 |
| Water Absorption | 0.040 % | 0.040 % | 24 hours at 23°C; ASTM D570-98 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|-----------------------------|--|
| Hardness, Shore A | 69 | 69 | 15 seconds; ASTM D2240-00 |
| Tensile Strength, Yield | 5.52 MPa | 800 psi | ASTM D412-98 |
| Elongation at Break | 500 % | 500 % | ASTM D412-98 |
| 100% Modulus | 0.00165 GPa | 0.240 ksi | ASTM D412-98 |
| Tear Strength | 24.5 kN/m | 140 pli | Initial Tear Strength; ASTM D1004-94 |
| Compression Set | 40 % @Temperature 70.0 °C | 40 % @Temperature 158 °F | Constant Deflection, for 22 hrs.; ASTM D395-98 Method B |
| Tensile Set | 110 % | 110 % | ASTM D412-98 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-------------|------------|--------------|
| Maximum Service Temperature, Air | 57.2 °C | 135 °F | |
| Brittleness Temperature | >= -77.8 °C | >= -108 °F | ASTM D746-98 |

| Thermal Properties | -73.3 °C Metric | -100 °F English | Low Temperature Flexibility; ASTM D2000-94 Comments |
|------------------------|--------------------|--------------------|--|
| Electrical Properties | Metric | English | Comments |
| Dielectric Strength | 20.9 kV/mm | 530 kV/in | ASTM D149-97 |
| 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