

Saint-Gobain Tygothane® C-544-AI.B. Precision Polyurethane Pressure Tubing Formulation

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Description: Tygothane® C-544-A I.B.: More flexible than many other reinforced urethane tubings, Tygothane® Pressure Tubing can be used in some of the most physically demanding applications, such as those requiring a tight bend radius. Specially formulated from tough, ether-based polyurethane resin, Tygothane® Pressure Tubing is resistant to a range of chemicals, including oils, greases, solvents and chemicals. Because of its excellent wear properties, Tygothane® Pressure Tubing frequently outperforms traditional rubber, plastic and metal materials when exposed to abrasive conditions. Tygothane® Pressure Tubing is also plasticizer free, and remains flexible even when cycled through temperature extremes.

Features/Benefits: Exceptional abrasion and tear resistance
Tough braid reinforcement for elevated working pressures
Excellent resistance to oils, greases and fuels
Retains flexibility in sub-zero environments
Ideal for use with Tygopure®, reusable fittings
Meets FDA and NSF 51 criteria for food contact
Meets NSF 61 criteria for potable water contact
Typical applications include Food and Cosmetic Processing, Abrasive and Viscous Slurry Transfer, Lubrication and Degreaser Dispensing, pellet and Powder Transfer, Pneumatic Sensory Devices, Instrumentation Control Lines, Coolant Recovery Systems.

Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Tygothane-C-544-AIB-Precision-Polyurethane-Pressure-Tubing-Formulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792-91
Water Absorption	1.8 %	1.8 %	24 hours at 23°C; ASTM D570-81

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	15 seconds; ASTM D2240-91
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D412-92
Elongation at Break	400 %	400 %	ASTM D412-92
100% Modulus	0.00552 GPa	0.800 ksi	ASTM D412-92
300% Modulus	0.00827 GPa	1.20 ksi	ASTM D412-92
Tear Strength	61.4 kN/m	350 pli	Initial Tear Strength; ASTM D1004-93
Compression Set	19 % @Temperature 70.0 °C	19 % @Temperature 158 °F	Constant Deflection, for 22 hrs.; ASTM D395-89 Method B
Tensile Set	45 %	45 %	ASTM D412-92

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Brittleness Temperature	-73.3 Â°C	-100 Â°F	ASTM D746-79

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.7 kV/mm	550 kV/in	ASTM D149-93

Descriptive Properties	Value	Comments
Color	Clear	

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