

Saint-Gobain Tygothane® C-210-A Precision Polyurethane Tubing Formulation

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Description: Tygothane® C-210-A: Our rigidly controlled manufacturing process makes Tygothane® Precision Polyurethane Tubing the flexible polyurethane tubing that has consistently tight tolerances from lot to lot. Precision tolerances and high elasticity provide the user with an easy, worry-free attachment to fittings. Made of a tough, ester-based polyurethane, Tygothane® Precision Polyurethane Tubing's clarity, high tear strength and excellent abrasion resistance make it ideal for many applications, including fuel and lubricant lines, pneumatic lines, abrasive product transfer and cable jacketing. It also offers exceptional resistance to oils, greases, fuels and many chemicals. Able to withstand rugged daily use, Tygothane® Precision Polyurethane Tubing resists weathering and can be safely used in temperatures ranging from -100°F (-73°C) to 200°F (93°C). It meets FDA criteria for food and beverage use and is also available in ether-based, medical grade and reinforced formulations.

Features/Benefits: Consistently tight dimensional tolerances
Excellent abrasion and tear resistance
Excellent resistance to oils, greases and fuels
High tear resistance
Retains flexibility in sub-zero environments
Meets FDA criteria
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-210-A-Precision-Polyurethane-Tubing-Formulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792-98
Water Absorption	1.12 %	1.12 %	24 hours at 23°C; ASTM D570-98

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	15 seconds; ASTM D2240-97
Tensile Strength, Yield	41.7 MPa	6050 psi	ASTM D412-98
Elongation at Break	500 %	500 %	ASTM D412-98
100% Modulus	0.00552 GPa	0.800 ksi	ASTM D412-98
300% Modulus	0.0103 GPa	1.50 ksi	ASTM D412-98
Tear Strength	83.3 kN/m	475 pli	Initial Tear Strength; ASTM D1004-94
Compression Set	68 % @Temperature 70.0 °C	68 % @Temperature 158 °F	Constant Deflection, for 22 hrs.; ASTM D395-98 Method B
Tensile Set	98 %	98 %	ASTM D412-98

Thermal Properties	Metric	English	Comments
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Maximum Service Temperature, Air Thermal Properties	79.4 °C Metric	175 °F English	Comments
	93.3 °C	200 °F	Intermittent
Brittleness Temperature	-73.3 °C	-100 °F	ASTM D746-98

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149-97

Descriptive Properties	Value	Comments
Color	Transparent Natural	

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