ScanTube PVDF Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidinefluoride (PVDF), Molded/Extruded

Material Notes:

Information provided by ScanTube, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_ScanTube-PVDF-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/inÂ³	ASTM D792
Water Absorption	<= 0.040 %	<= 0.040 %	ASTM D257

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength	34.5 MPa	5000 psi	ASTM D638, ASTM D1708
Elongation at Break	150 %	150 %	ASTM D638, ASTM D1708
Tensile Modulus	1.38 GPa	200 ksi	ASTM D638
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Compressive Strength	80.0 MPa	11600 psi	ASTM D695
Izod Impact, Notched	1.60 - 3.20 J/cm	3.00 - 6.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.187 W/m-K	1.30 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Melting Point	160 Â°C	320 Â°F	
Maximum Service Temperature, Air	150 Â°C	302 Â°F	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	113 Â°C	235 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	44 %	44 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	ASTM D257
	7.2	7.2	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	8.5 @Frequency 1.00e+6 Hz	8.5 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	63.0 kV/mm	1600 kV/in	Short Term; 10 mil film; ASTM D149
Dissipation Factor	0.030 @Frequency 1000 Hz	0.030 @Frequency 1000 Hz	ASTM D150
	0.090 @Frequency 1.00e+6 Hz	0.090 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Good	
Weather Resistance	Excellent	

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