

ScanTube ECTFE Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE , ECTFE Fluoropolymer

Material Notes:

Information provided by ScanTube, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ScanTube-ECTFE-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	ASTM D257

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength	48.3 MPa	7000 psi	ASTM D638, ASTM D1708
Elongation at Break	200 %	200 %	ASTM D638, ASTM D1708
Tensile Modulus	1.65 GPa	240 ksi	ASTM D638
Flexural Modulus	1.65 GPa	240 ksi	ASTM D790
Compressive Strength	48.3 MPa	7000 psi	ASTM D695
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.231 W/m-K	1.60 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	240 °C	464 °F	
Maximum Service Temperature, Air	150 °C	302 °F	Continuous
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	219 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	60 %	60 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	2.5	2.5	ASTM D150
Dielectric Strength	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	78.7 kV/mm	2000 kV/in	Short Term; 10 mil film; ASTM D149
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	0.0012	0.0012	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.0018	0.0018	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Good	
Weather Resistance	Excellent	

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