

ScanTube ETFE Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

Information provided by ScanTube, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Water Absorption	<= 0.030 %	<= 0.030 %	ASTM D257

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength	44.8 MPa	6500 psi	ASTM D638, ASTM D1708
Elongation at Break	200 %	200 %	ASTM D638, ASTM D1708
Tensile Modulus	0.827 GPa	120 ksi	ASTM D638
Flexural Modulus	1.38 GPa	200 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	260 °C	500 °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	>= 30 %	>= 30 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	2.6	2.6	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 1000 Hz	@Frequency 1000 Hz	ASTM D150
	0.00080	0.00080	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	0.0050	0.0050	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Weather Resistance	Excellent	

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