

ScanTube FEP Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , FEP , Fluorinated Ethylene Propylene (FEP), Molded/Extruded

Material Notes:

Information provided by ScanTube, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	2.15 g/cc	0.0777 lb/in ³	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	ASTM D257

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength	24.1 MPa	3500 psi	ASTM D638, ASTM D1708
Elongation at Break	300 %	300 %	ASTM D638, ASTM D1708
Tensile Modulus	0.345 GPa	50.0 ksi	ASTM D638
Flexural Modulus	0.655 GPa	95.0 ksi	ASTM D790
Compressive Strength	15.2 MPa	2200 psi	ASTM D695
Izod Impact, Notched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.202 W/m-K	1.40 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	270 °C	518 °F	
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
Deflection Temperature at 0.46 MPa (66 psi)	59.0 °C	138 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
	2.1	2.1	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
	0.00010	0.00010	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
	0.00080	0.00080	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Weather Resistance	Excellent	

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