

Zeus ETFE Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

ETFE (Ethylenetetrafluoroethylene), a copolymer of ethylene and tetrafluoroethylene, is used in applications requiring excellent impact, abrasion and stress cracking resistance. This polymer possesses superior toughness, stiffness and durability, all while being chemically inert. The material can be extruded in variety of forms, including flexible convoluted tubing that meets Mil Spec 81914 certification.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.70 - 1.86 g/cc	0.0614 - 0.0672 lb/in ³	ASTM D792
Water Absorption	0.0070 %	0.0070 %	ASTM D257
Crystallinity	50 %	50 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63 - 72	63 - 72	ASTM D2240
Tensile Strength, Ultimate	37.0 - 50.0 MPa	5370 - 7250 psi	ASTM D638
Elongation at Break	200 - 550 %	200 - 550 %	ASTM D638
Modulus of Elasticity	0.490 - 0.780 GPa	71.1 - 113 ksi	ASTM D638
Flexural Modulus	0.700 - 1.20 GPa	102 - 174 ksi	ASTM D790
Coefficient of Friction	0.050 - 0.40	0.050 - 0.40	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 90.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	27.8 - 50.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	230 - 282 °C	446 - 540 °F	
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-100 °C	-148 °F	
Glass Transition Temp, Tg	40.0 - 80.0 °C	104 - 176 °F	
Decomposition Temperature	350 - 380 °C	662 - 716 °F	ASTM E1131
Oxygen Index	30 - 46 %	30 - 46 %	ASTM D2863

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.34	1.34	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.5 - 2.6 @Frequency 1.00e+6 Hz	2.5 - 2.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	15.7 - 70.9 kV/mm	400 - 1800 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Radiation Resistance (MRad)	50	

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