

Zeus PFA Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , PFA , Polyperfluoroalkoxyethylene, Molded/Extruded

Material Notes:

PFA, or perfluoroalkoxy, is well recognized for its ability to maintain mechanical integrity in extreme temperatures even when exposed to caustic chemicals. PFA comes in high purity versions that are SEMI F-57 certified, lending itself to critical fluid transport tubing applications that demand a very low level of extractables. This fluoropolymer can be extruded in convoluted tubing forms that provide a highly flexible conduit.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	2.12 - 2.17 g/cc	0.0766 - 0.0784 lb/in ³	ASTM D792
Water Absorption	<= 0.030 %	<= 0.030 %	ASTM D257
Crystallinity	48 - 70 %	48 - 70 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Tensile Strength, Ultimate	25.0 - 35.0 MPa	3630 - 5080 psi	ASTM D638
Elongation at Break	250 - 420 %	250 - 420 %	ASTM D638
Modulus of Elasticity	0.450 GPa	65.3 ksi	ASTM D638
Flexural Modulus	0.600 - 0.700 GPa	87.0 - 102 ksi	ASTM D790
Coefficient of Friction	0.040 - 0.20	0.040 - 0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	120 - 140 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	66.7 - 77.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.150 - 0.250 W/m-K	1.04 - 1.74 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Melting Point	300 - 315 $^{\circ}\text{C}$	572 - 599 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-200 $^{\circ}\text{C}$	-328 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	
Decomposition Temperature	475 $^{\circ}\text{C}$	887 $^{\circ}\text{F}$	ASTM E1131

Thermal Properties	Metric	English	Comments
Oxygen Index	≥ 95 %	≥ 95 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.35	1.35	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Constant	1.9 - 2.1 @Frequency 1.00e+6 Hz	1.9 - 2.1 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.7 - 78.7 kV/mm	500 - 2000 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Radiation Resistance (MRad)	1 to 10	

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