

Zeus PVDF Tubing

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

Material Notes:

PVDF, polyvinylidene fluoride, delivers high performance at a competitive cost. Its inherent purity positions it as ideal for a variety of applications which involve extreme conditions. PVDF is characterized by low permeability, as well as strong abrasion and chemical resistance.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.76 - 1.88 g/cc	0.0636 - 0.0679 lb/in ³	ASTM D792
Water Absorption	0.010 - 0.060 %	0.010 - 0.060 %	ASTM D257
Crystallinity	35 - 70 %	35 - 70 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 82	65 - 82	ASTM D2240
Tensile Strength, Ultimate	17.0 - 48.0 MPa	2470 - 6960 psi	ASTM D638
Elongation at Break	50 - 400 %	50 - 400 %	ASTM D638
Modulus of Elasticity	>= 0.500 GPa	>= 72.5 ksi	ASTM D638
Flexural Modulus	>= 1.30 GPa	>= 189 ksi	ASTM D790
Coefficient of Friction	0.14 - 0.23	0.14 - 0.23	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 - 144 $\mu\text{m/m}\cdot^\circ\text{C}$	50.0 - 80.0 $\mu\text{in/in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.170 - 0.190 W/m-K	1.18 - 1.32 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM C177
Melting Point	172 $^\circ\text{C}$	342 $^\circ\text{F}$	
Maximum Service Temperature, Air	100 - 130 $^\circ\text{C}$	212 - 266 $^\circ\text{F}$	
Glass Transition Temp, Tg	-40.0 - -30.0 $^\circ\text{C}$	-40.0 - -22.0 $^\circ\text{F}$	
Decomposition Temperature	375 - 400 $^\circ\text{C}$	707 - 752 $^\circ\text{F}$	ASTM E1131
Oxygen Index	44 - 80 %	44 - 80 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.42	1.42	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Constant	7.0	7.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	31.5 - 66.9 kV/mm	800 - 1700 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Radiation Resistance (MRad)	1000	

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