

Zeus EFEP Tubing

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ASTM D792
Water Absorption	<= 0.10 %	<= 0.10 %	ASTM D257
Crystallinity	10 %	10 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Ultimate	40.0 - 50.0 MPa	5800 - 7250 psi	ASTM D638
Elongation at Break	420 - 460 %	420 - 460 %	ASTM D638
Modulus of Elasticity	0.490 - 0.780 GPa	71.1 - 113 ksi	ASTM D638
Flexural Modulus	0.880 - 1.37 GPa	128 - 199 ksi	ASTM D790
Coefficient of Friction	0.055 - 0.078	0.055 - 0.078	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	27.8 - 50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Melting Point	160 - 195 $^{\circ}\text{C}$	320 - 383 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	
Decomposition Temperature	350 $^{\circ}\text{C}$	662 $^{\circ}\text{F}$	ASTM E1131
Oxygen Index	31 %	31 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.338 - 1.34	1.338 - 1.34	

Electrical Properties	Metric	English	Comments
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Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	ASTM D257 Comments
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149

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