

Zeus THV Tubing

Category : Polymer , Thermoplastic , Fluoropolymer

Material Notes:

THV Tubing is a Terpolymer of Tetrafluoroethylene, Hexafluoropropylene and Vinylidene fluoride. THV is the most flexible fluoropolymer available and has the highest degree of optical clarity.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.95 - 2.06 g/cc	0.0704 - 0.0744 lb/in ³	ASTM D792
Water Absorption	<= 0.030 %	<= 0.030 %	ASTM D257
Crystallinity	26 - 29 %	26 - 29 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	44 - 58	44 - 58	ASTM D2240
Tensile Strength, Ultimate	20.0 - 29.0 MPa	2900 - 4210 psi	ASTM D638
Elongation at Break	420 - 600 %	420 - 600 %	ASTM D638
Modulus of Elasticity	0.240 GPa	34.8 ksi	ASTM D638
Flexural Modulus	0.320 - 0.520 GPa	46.4 - 75.4 ksi	ASTM D790
Coefficient of Friction	0.80	0.80	

Thermal Properties	Metric	English	Comments
Melting Point	120 - 185 °C	248 - 365 °F	
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Glass Transition Temp, Tg	5.00 - 36.0 °C	41.0 - 96.8 °F	
Decomposition Temperature	420 - 440 °C	788 - 824 °F	ASTM E1131
Oxygen Index	65 - 75 %	65 - 75 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.3502	1.3502	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	ASTM D257
Dielectric Constant	2.4 - 6.6 @Frequency 1.00e+6 Hz	2.4 - 6.6 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	48.0 - 61.8 kV/mm	1220 - 1570 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Radiation Resistance (MRad)	20	

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