

Techmer ES HiFill FR[®] TPX-HTN-01031 35% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber, 35% Filler by Weight Additive: Heat Stabilizer Features: Flame Retardant, Heat Stabilized and High Temperature Strength UL File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-TPX-HTN-01031-35-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Water Absorption	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	179 MPa	25900 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.17 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	290 $\text{Å}^\circ\text{C}$	554 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	24.0 kV/mm	610 kV/in	Method A (Short-Time); ASTM D149

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