

Techmer ES HiFill® TPX-HTN-01040 A 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon , High Temperature Nylon

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 45% Filler by Weight
Additive: Heat Stabilizer
Features: Heat Stabilized and High Temperature Strength
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPX-HTN-01040-A-45-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.019 % @Time 86400 sec	0.019 % @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	228 MPa	33000 psi	ASTM D638
Elongation at Yield	2.8 %	2.8 %	ASTM D638
Flexural Yield Strength	331 MPa	48000 psi	ASTM D790
Flexural Modulus	13.1 GPa	1900 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 $\mu\text{m}/\text{m}\cdot\text{Â}^\circ\text{C}$	19.0 $\mu\text{in}/\text{in}\cdot\text{Â}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	302 $\text{Â}^\circ\text{C}$	575 $\text{Â}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+15 ohm-cm	8.00e+15 ohm-cm	ASTM D257
Dielectric Strength	23.6 kV/mm	600 kV/in	Method A (Short-Time); ASTM D149

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