

Techmer ES HiFill[®] PA6/6 GF33 LE BK 33% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight Features: Low

Extractables Appearance: Black TPCI# 7762101 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF33-LE-BK-33-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.55 %	0.55 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	183 MPa	26500 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	259 $\text{Å}^\circ\text{C}$	499 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Dielectric Strength Electrical Properties	19.7 kV/mm Metric	500 kV/in English	Method A (Short-Time); ASTM D149 Comments
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