

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

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight
Additive: Lubricant and Heat Stabilizer
Features: Lubricated and Heat Stabilized
Appearance: Black
TPCI# 8263101
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF33-UG-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 % @Time 86400 sec	0.55 % @Time 24.0 hour	ASTM D570
Water Absorption at Saturation	5.1 %	5.1 %	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
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	162 MPa	23500 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Shear Strength	76.5 MPa	11100 psi	ASTM D732
Izod Impact, Notched	0.908 J/cm @Thickness 3.17 mm	1.70 ft-lb/in @Thickness 0.125 in	ASTM D256

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
Melting Point	259 $\text{Å}^\circ\text{C}$	499 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	259 $\text{Å}^\circ\text{C}$	499 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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