

Techmer ES HiFill[®] PA4/6 GF45 HS BK 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Glass Fiber Reinforced

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 45% Filler by Weight
Additive: Heat Stabilizer
Features: Heat Stabilized
Appearance: Black
TPCI# 9627150
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA46-GF45-HS-BK-45-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	1.5 % @Time 86400 sec	1.5 % @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	231 MPa	33500 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Flexural Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	164 $\mu\text{m/m-}^\circ\text{C}$	91.0 $\mu\text{in/in-}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	288 $^\circ\text{C}$	550 $^\circ\text{F}$	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	21.7 kV/mm	550 kV/in	Method A (Short-Time); ASTM D149

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