

Techmer ES HiFill[®] PA4/6 GF50 ML2 50% Glass Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 50% Filler by Weight Additive: Molybdenum Disulfide Lubricant Features: Lubricated Appearance: Black 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-PA46-GF50-ML2-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	ASTM D792
Water Absorption	1.8 % @Time 86400 sec	1.8 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	146 MPa	21200 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	1.92 J/cm @Thickness 3.17 mm	3.60 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	285 $\text{Å}^\circ\text{C}$	545 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	23.6 kV/mm	600 kV/in	Method A (Short-Time); ASTM D149

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