

Techmer ES HiFill[®] PA6 GF6 UG BK MB 6% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 60% Glass Fiber Filled , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 6% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Heat Stabilized and Lubricated
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF6-UG-BK-MB-6-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Water Absorption	1.4 % @Time 86400 sec	1.4 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.17 mm	0.012 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 Åµm/m-Å°C	24.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	202 Å°C	395 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Å°C	300 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

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