Techmer ES HiFillÂ® PA6/6 G/CF20 IM HS BK 20% GlassCarbon Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Carbon Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: GlassCarbon Fiber Reinforcement, 20% Filler by WeightAdditive: Heat Stabilizer and LubricantFeatures: Heat Stabilized and LubricatedAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GCF20-IM-HS-BK-20-GlassCarbon-Filler.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/inÂ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @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
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	131 MPa	19000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm @Thickness 3.17 mm	2.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 Âµm/m-Â°C	11.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C	490 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	243 Â°C	470 Â°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+7 ohm-cm	10000 - 1.00e+7 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+7 ohm	10000 - 1.00e+7 ohm	ASTM D257

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