Techmer ES HiFillÂ® PA6 GF/B20 A3 BK 20% Glass Fiber/Glass Bead Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, Glass Bead Filled , Nylon 6, Heat Stabilized

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Fiber/Glass Bead, 20% Filler by WeightAdditive: Lubricant and Heat StabilizerFeatures: Lubricated and Heat StabilizedAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GFB20-A3-BK-20-Glass-FiberGlass-Bead-Filled.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/inÂ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Âµm/m-Â°C	19.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Â°C	420 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	400 Â°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
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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