Techmer ES HiFillÂ® PA6/6 GB20 L BK 20% Glass Bead Filler

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Bead, 20% Filler by WeightAdditive: LubricantFeatures: LubricatedAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GB20-L-BK-20-Glass-Bead-Filler.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/inÂ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.17 mm	0.600 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	2.03 J/cm @Thickness 3.17 mm	3.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 Âµm/m-Â°C	33.0 Âµin/in-Â°F	ASTM D696
Melting Point	255 Â°C	491 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	232 Â°C	450 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 Â°C	350 Â°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	16.1 kV/mm	410 kV/in	Method A (Short-Time); ASTM D149

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