

Techmer ES HiFill® PA6 GF/B30 HS L BK 30% Glass Fiber/Glass Bead Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Bead Filled , Nylon 6, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber/Glass Bead, 30% Filler by Weight
Additive: Lubricant and Heat Stabilizer
Features: Lubricated and Heat Stabilized
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GFB30-HS-L-BK-30-Glass-FiberGlass-Bead-Filled.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.17 mm	0.0035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	119 MPa	17200 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 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
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 Åµm/m-Å°C	19.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	204 Å°C	400 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
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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