

Techmer ES HiFill® PA6 GF60 HS L BK 60% 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, 60% Filler by Weight Additive: Heat

Stabilizer Features: Heat Stabilized Appearance: Black Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF60-HS-L-BK-60-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0015 cm/cm @Thickness 3.17 mm	0.0015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	231 MPa	33500 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Strength	345 MPa	50000 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	12.3 J/cm @Thickness 3.17 mm	23.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.6 Åµm/m-Å°C	7.00 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 Å°C	425 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	5.00e+15 ohm-cm Metric	5.00e+15 ohm-cm English	ASTM D257 Comments
Dielectric Strength	18.9 kV/mm	480 kV/in	Method A (Short-Time); ASTM D149

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