

Techmer ES HiFill[®] PA6 GF40 RM HS BK 40% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 40% Filler by Weight Additive: Heat Stabilizer

Features: Heat Stabilized and Low Moisture Absorption Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF40-RM-HS-BK-40-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	193 MPa	28000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	303 MPa	44000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.17 mm	2.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm @Thickness 3.17 mm	21.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 $\text{Å}^\circ\text{C}$	425 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 $\text{Å}^\circ\text{C}$	420 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	ASTM D257 Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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