

Techmer ES HiFill[®] PA6/6 GF43 LE BK 43% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 43% Filler by Weight Additive: Lubricant

Features: Lubricated and Low Extractables Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF43-LE-BK-43-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @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	122	122	ASTM D785
Tensile Strength, Yield	208 MPa	30200 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	296 MPa	43000 psi	ASTM D790
Flexural Modulus	11.4 GPa	1660 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm @Thickness 3.17 mm	2.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	15.5 J/cm @Thickness 3.17 mm	29.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Åµm/m-Å°C	41.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	259 Å°C	499 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	255 Å°C	491 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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