

Techmer ES HiFill® PA6/6 GF33 HR HS BK 33% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight
Additive: Heat Stabilizer
Features: Heat Stabilized and Hydrolysis Resistant
Appearance: Black
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF33-HR-HS-BK-33-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.55 % @Time 86400 sec	0.55 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	18.8 MPa	2730 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
Flexural Modulus	8.89 GPa	1290 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.61 J/cm @Thickness 3.17 mm	18.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 Åµm/m-Å°C	18.0 Åµin/in-Å°F	ASTM D696
Melting Point	255 Å°C	491 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 Å°C	490 Å°F	Unannealed; ASTM D648

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Dielectric Strength	18.9 kV/mm	480 kV/in	Method A (Short-Time); ASTM D149

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