

Techmer ES HiFill® PA6 GF33 L BK001 33% Glass Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight Additive: Lubricant

Features: Lubricated Appearance: Black TPCI# 8221102 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF33-L-BK001-33-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	165 MPa	23900 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	8.62 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 Åµm/m-Å°C	9.00 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)	210 Å°C	410 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	16.1 kV/mm	410 kV/in	Method A (Short-Time); ASTM D149

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