

Techmer ES HiFill® PA6 GF35 HS L 35% 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, 35% Filler by Weight Additive: Lubricant and Heat Stabilizer Features: Lubricated and Heat Stabilized 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-GF35-HS-L-35-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm @Thickness 3.17 mm	0.0025 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	195 MPa	28300 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	238 MPa	34500 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Izod Impact, Notched	1.82 J/cm @Thickness 3.17 mm	3.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	13.3 J/cm @Thickness 3.17 mm	25.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM D696
Melting Point	218 Å°C	424 Å°F	
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

Flammability: UL 94 Thermal Properties	HB Metric	HB English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+15 ohm-cm	3.00e+15 ohm-cm	ASTM D257
Dielectric Strength	18.9 kV/mm	480 kV/in	Method A (Short-Time); ASTM D149

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