

## Techmer ES HiFill<sup>®</sup> PA6 GF50 IM 50% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled , Nylon 6, Impact Grade

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 50% Filler by Weight  
Additive: Impact Modifier  
Features: Impact Modified  
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-GF50-IM-50-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF50-IM-50-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0022 cm/cm @Thickness 3.17 mm	0.0022 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	207 MPa	30000 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	12.8 GPa	1850 ksi	ASTM D790
Izod Impact, Notched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.17 mm	NB @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Åµm/m-Å°C	8.00 Åµin/in-Å°F	ASTM D696
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)	213 Å°C	415 Å°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

## Contact Songhan Plastic Technology Co.,Ltd.

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