

## Techmer ES HiFill<sup>®</sup> PES GF30 30% Glass Filled

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 30%Glass Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PES-GF30-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PES-GF30-30-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @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	120	120	ASTM D785
Tensile Strength, Yield	138 MPa	20000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Åµm/m-Å°C	15.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	2.00e+16 ohm-cm Metric	2.00e+16 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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