

## Techmer ES HiFill<sup>®</sup> PPS F GF/M55 BK 55% Glass/Mineral Filled

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass/Mineral, 55% Filler by Weight Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PPS-F-GFM55-BK-55-GlassMineral-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PPS-F-GFM55-BK-55-GlassMineral-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.030 % @Time 86400 sec	0.030 % @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	100	100	ASTM D785
Tensile Strength, Yield	165 MPa	24000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Yield Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	16.2 GPa	2350 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	266 $\text{Å}^\circ\text{C}$	510 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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