

## Techmer ES HiFill FR® PA6/6 GF20 FR 20% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber, 20% Filler by Weight Features: Flame Retardant Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA66-GF20-FR-20-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-GF20-FR-20-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 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	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	123 MPa	17800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	6.27 GPa	910 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 µm/m-°C	14.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	485 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Dielectric Strength Electrical Properties	17.3 kV/mm Metric	440 kV/in English	Method A (Short-Time); ASTM D149 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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