

## Techmer ES HiFill<sup>®</sup> ABS GF20 FR 20% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

### Material Notes:

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

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength	60.0 MPa	8700 psi	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Flexural Yield Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	5.17 GPa	750 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
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	98.9 Å°C	210 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.3 Å°C	200 Å°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
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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