

## Techmer ES HiFill FR® PA6 GF15 FR-N 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6 , Heat Stabilized

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight  
Additive: Heat Stabilizer and Lubricant  
Features: Flame Retardant, Heat Stabilized, Halogen Free and Lubricated  
Appearance: Natural Color and Red  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA6-GF15-FR-N-15-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA6-GF15-FR-N-15-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.4 %	1.4 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 µm/m-°C	24.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	$1.00\text{e}+15$ ohm-cm Metric	$1.00\text{e}+15$ ohm-cm English	ASTM D257 Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China