

## Techmer ES Elastoblend® PA6 GF18 IM 511 18% Glass Filled

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

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 18% Filler by Weight  
Additive: Heat Stabilizer, Impact Modifier and Lubricant  
Features: Heat Stabilized, Impact Modified and Lubricated  
Uses: Low Temperature Applications  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Elastoblend-PA6-GF18-IM-511-18-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA6-GF18-IM-511-18-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	5.03 GPa	730 ksi	ASTM D790
Izod Impact, Notched	1.98 J/cm	3.70 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
	1.49 J/cm	2.80 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 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)	193 °C	380 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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