

## Techmer ES HiFill<sup>®</sup> PA6/6 GF45 TL10 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled , Nylon 66, PTFE Filled

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 45% Filler by Weight  
Additive: PTFE Lubricant (10%)  
Features: Lubricated  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GF45-TL10-45-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF45-TL10-45-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.60 %	0.60 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	181 MPa	26200 psi	ASTM D638
	131 MPa @Temperature 93.3 °C	19000 psi @Temperature 200 °F	
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	296 MPa	43000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
	8.96 GPa @Temperature 93.3 °C	1300 ksi @Temperature 200 °F	
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	15.5 J/cm	29.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 µm/m-°C	41.0 µin/in-°F	ASTM D696

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	259 Â°C	493 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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