

## Techmer ES HiFill<sup>®</sup> PA4/6 GF33 HS NAT 33% Glass Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Glass Fiber Reinforced

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight  
Additive: Heat Stabilizer  
Features: Heat Stabilized  
Appearance: Natural Color  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA46-GF33-HS-NAT-33-Glass-Filled-Dry.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA46-GF33-HS-NAT-33-Glass-Filled-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.5 % @Time 86400 sec	1.5 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	207 MPa	30000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	295 $\text{Å}^\circ\text{C}$	563 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	291 $\text{Å}^\circ\text{C}$	555 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	23.6 kV/mm	600 kV/in	Method A (Short-Time); ASTM D149

## **Contact Songhan Plastic Technology Co.,Ltd.**

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