

## Techmer ES HiFill FR<sup>®</sup> PA4/6 GF15 FR HS L 15% Glass Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Flame Retarded + Glass Fiber Reinforced , Nylon 46, Lubricated + Glass Fiber Reinforced

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA46-GF15-FR-HS-L-15-Glass-Filled-Dry.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA46-GF15-FR-HS-L-15-Glass-Filled-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ASTM D792
Water Absorption	2.0 % @Time 86400 sec	2.0 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0075 cm/cm @Thickness 3.17 mm	0.0075 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	131 MPa	19000 psi	ASTM D638
Elongation at Break	2.7 %	2.7 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	290 $\text{Å}^\circ\text{C}$	554 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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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