

## Techmer ES HiFill<sup>®</sup> PA6/6 GF15 TL5 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, PTFE Filled

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight  
Additive: PTFE Lubricant (5%)  
Features: Lubricated  
Appearance: Natural Color  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-GF15-TL5-15-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GF15-TL5-15-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.95 % @Time 86400 sec	0.95 % @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
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	159 MPa	23000 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	32.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	19.3 kV/mm	490 kV/in	Method A (Short-Time); ASTM D149

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

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