

## Techmer ES HiFill<sup>®</sup> TPX-HTN-01026 A 20% Glass Filled

Category : Polymer , Thermoplastic , Nylon , High Temperature Nylon

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight Additive: Heat

Stabilizer Features: Heat Stabilized and High Temperature Strength UL File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-TPX-HTN-01026-A-20-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPX-HTN-01026-A-20-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.25 % @Time 86400 sec	0.25 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	7.79 GPa	1130 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	34.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	19.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	235 $\text{Å}^\circ\text{C}$	455 $\text{Å}^\circ\text{F}$	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	24.0 kV/mm	610 kV/in	Method A (Short-Time); ASTM D149

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

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