

## Techmer ES HiFill<sup>®</sup> PA6/6 E4 HS MB Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

### Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer Features: Heat Stabilized and High Viscosity Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA66-E4-HS-MB-Nylon-66.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-E4-HS-MB-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.2 % @Time 86400 sec	1.2 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.018 cm/cm @Thickness 3.17 mm	0.018 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	43.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	237 $\text{Å}^\circ\text{C}$	459 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 $\text{Å}^\circ\text{C}$	190 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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

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