

## Techmer ES HiFill FR® PA6/6 FR IM

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade , Nylon 66, Unreinforced, Flame Retardant

### Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Flame Retardant and Impact Modified Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA66-FR-IM.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-FR-IM.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm @Thickness 3.17 mm	11.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C	165 °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
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257

Dielectric Strength Electrical Properties	20.9 kV/mm Metric	530 kV/in English	Method A (Short-Time); ASTM D149 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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