

## Techmer ES HiFill FR<sup>®</sup> PA6 FR IM

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade , Nylon 6 , 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-PA6-FR-IM.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA6-FR-IM.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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	0.014 cm/cm @Thickness 3.17 mm	0.014 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	85 %	85 %	ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 Åµm/m-Å°C	33.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	57.2 Å°C	135 Å°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	19.7 kV/mm Metric	500 kV/in English	Method A (Short-Time); ASTM D149 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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