

## Techmer ES HiFill FR® PA4/6 FR HS

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Unreinforced

### Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer Features: Flame Retardant and Heat Stabilized TPCI#

8277150 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA46-FR-HS.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA46-FR-HS.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 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	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 μm/m-°C	40.0 μin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	271 °C	520 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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