

## Techmer ES HiFill FR<sup>®</sup> PA6/6 FR 144

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized , Nylon 66, Unreinforced, Flame Retardant

### Material Notes:

Availability: North America Forms: Pellets Additive: Lubricant and Heat Stabilizer Features: Flame Retardant, Halogen Free, Heat Stabilized and Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-FR-PA66-FR-144.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-FR-144.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.013 cm/cm @Thickness 3.17 mm	0.013 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.8 Åµm/m-Å°C	31.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Å°C	158 Å°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
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257

Dielectric Strength Electrical Properties	27.2 kV/mm Metric	690 kV/in English	Method A (Short-Time); ASTM D149 Comments
--	----------------------	----------------------	--

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China