

## Techmer ES HiFill FR<sup>®</sup> ABS FR BK

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

### Material Notes:

Availability: North America Forms: Pellets Features: Flame Retardant Appearance: Black TPCI# 9224121 Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	40.7 MPa	5900 psi	ASTM D638
Elongation at Break	3.1 %	3.1 %	ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Thickness 3.17 mm	2.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.9 °C	201 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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

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