

Techmer ES HiFill FR[®] ABS FR UV

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

Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Flame Retardant UL File Number: E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-ABS-FR-UV.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	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 Â°C	5.0 g/10 min @Load 8.38 lb, Temperature 446 Â°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	2.08 J/cm @Thickness 3.17 mm	3.90 ft-lb/in @Thickness 0.125 in	ASTM D256

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

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