

Techmer ES HiFill FR[®] PC FR HS GY154

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, UV Stabilized

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer and UV Stabilizer Features: Flame Retardant and Heat Stabilized Appearance: Grey Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PC-FR-HS-GY154.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	88 %	88 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Thickness 3.17 mm	7.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 Åµm/m-Å°C	38.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	132 Å°C	270 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
	5VB @Thickness 1.98 mm	5VB @Thickness 0.0780 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	ASTM D257
Dielectric Strength	16.9 kV/mm	430 kV/in	Method A (Short-Time); ASTM D149

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