

Techmer ES HiFill FR[®] PC IM FR

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Flame Retardant and Impact Modified Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength	228 MPa	33000 psi	ASTM D638
Elongation at Yield	90 %	90 %	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Izod Impact, Notched	4.27 J/cm @Thickness 3.17 mm	8.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 Åµm/m-Å°C	37.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	116 Å°C	240 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+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Strength	17.3 kV/mm	440 kV/in	Method A (Short-Time); ASTM D149

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