

Techmer ES Electrablend® TPX-PC-02071 Stainless Steel Fiber Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Stainless Steel Fiber

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Stainless Steel Fiber Features: Electromagnetic Shielding (EMI) and Flame Retardant Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-TPX-PC-02071-Stainless-Steel-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	3.3 %	3.3 %	ASTM D638
Flexural Yield Strength	134 MPa	19500 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	13.9 J/cm	26.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	285 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0590 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	10000 ohm	10000 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Static Decay	<= 0.10 sec	<= 0.10 sec	FTMS 101B
Shielding Effectiveness	50 dB	50 dB	ASTM D4935

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