

Techmer ES Electrablend® PEI 04001 MB Stainless Steel Fiber Filled

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Stainless Steel Filled

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PEI-04001-MB-Stainless-Steel-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	15900 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	169 MPa	24500 psi	ASTM D790
Flexural Modulus	3.59 GPa	520 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.7 J/cm @Thickness 3.17 mm	22.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 Åµm/m-Å°C	30.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	202 Å°C	395 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 1000 ohm-cm	1.0 - 1000 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 * 1000 ohm	1.0 * 1000 ohm	ASTM D257
Static Decay	<= 0.10 sec	<= 0.10 sec	FTMS 101B
Shielding Effectiveness	50 dB	50 dB	ASTM D4935

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