

## Techmer ES Electrablend® PEI 04008 MB

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

Availability: North America Forms: Pellets Features: Conductive and Copolymer Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrablend-PEI-04008-MB.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PEI-04008-MB.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 Åµm/m-Å°C	12.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	169 Å°C	336 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 Å°C	226 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 100 ohm-cm	1.0 - 100 ohm-cm	ASTM D257
Surface Resistance	1.0 - 100 ohm	1.0 - 100 ohm	ASTM D257

## **Contact Songhan Plastic Technology Co.,Ltd.**

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