

Techmer ES Statiblend[®] HIPS E

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Availability: North America Forms: Pellets Additive: Antistatic Features: Antistatic and Conductive Appearance: Natural Color Processing

Method: Extrusion Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Statiblend-HIPS-E.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	0.60 % @Time 86400 sec	0.60 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 200 °C	7.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	60	60	ASTM D785
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Strength	28.3 MPa	4100 psi	ASTM D790
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 μm/m-°C	35.0 μin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.1 °C	205 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 - 1.00e+11 ohm-cm	1.00e+8 - 1.00e+11 ohm-cm	ASTM D257
Surface Resistance	1.00e+8 - 1.00e+11 ohm	1.00e+8 - 1.00e+11 ohm	ASTM D257

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