

Techmer ES Statiblend® PP FR BK

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Feature: Flame Retardant, Homopolymer and Semi Conductive UL File Number:

E157318 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Statiblend-PP-FR-BK.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ASTM D792
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 230 °C	11 g/10 min @Load 22.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	92	92	ASTM D785
Tensile Strength, Yield	33.8 MPa	4900 psi	ASTM D638
Elongation at Yield	130 %	130 %	ASTM D638
Flexural Yield Strength	42.1 MPa	6100 psi	ASTM D790
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm @Thickness 3.17 mm	5.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 µm/m-°C	30.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	220 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.7 °C	188 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+12 ohm-cm Metric	1.00e+12 ohm-cm English	ASTM D257 Comments
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	ASTM D257

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