

Techmer ES Statiblend[®] PC FR BK

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Conductive , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Antistatic Features: Flame Retardant 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-PC-FR-BK.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	70.3 MPa	10200 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm @Thickness 3.17 mm	1.70 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm @Thickness 3.17 mm	21.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	32.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 $\text{Å}^\circ\text{C}$	295 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 $\text{Å}^\circ\text{C}$	285 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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

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