

Techmer ES Electrablend® PC CF20 FR IM BK 20% Carbon Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced , Polycarbonate, Impact Modified

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber Reinforcement, 20% Filler by Weight Additive: Impact

Modifier Features: Frame Retardant, Impact Modified and Semi Conductive Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-CF20-FR-IM-BK-20-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Water Absorption	0.090 % @Time 86400 sec	0.090 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	138 MPa	20000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm @Thickness 3.17 mm	2.40 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)	149 Å°C	300 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 2.01 mm	V-0 @Thickness 0.0790 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1.00e+7 ohm Metric	1.00e+7 ohm English	ASTM D257 Comments
Shielding Effectiveness	10 - 30 dB	10 - 30 dB	ASTM D4935

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