

Techmer ES Electrablend® PC/PET CF20 IM 20% Carbon Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Conductive , Polycarbonate/PET Polyester Blend, Carbon Fiber Filled , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

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

Modifier Features: 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-PCPET-CF20-IM-20-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	124 MPa	18000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	3.20 J/cm	6.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 Åµm/m-Å°C	11.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	132 Å°C	270 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	122 Å°C	252 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0590 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257
Surface Resistance	1.00e+7 ohm	1.00e+7 ohm	ASTM D257

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