

PolyOne Stat-Tech™ PC- 15CF/000 Black Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber for low to high levels of conductivity depending upon application requirements. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PC-15CF000-Black-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	7.79 GPa	1130 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	175 MPa	25400 psi	ASTM D790
Flexural Modulus	8.55 GPa	1240 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C @Thickness 6.35 mm	293 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 °C @Thickness 6.35 mm	284 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm - 1e+05	100 ohm-cm - 1e+05	ASTM D257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

Electrical Properties	Metric	English	Comments
Static Decay	0.0030 sec	0.0030 sec	(MI - B - 81705C), 12% RH, 5000 kV to 50 kV

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 304 °C	540 - 579 °F	

Descriptive Properties	Value	Comments
Features	Antistatic	
	Conductive	
	Electrically Conductive	
	Statically Conductive	
Filler / Reinforcement	Carbon Fiber Reinforcement, 15% Filler by Weight	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Automotive Electronics	
	Business Equipment	
	Computer Components	
	Connectors	
	Electrical Housing	
	Electrical/Electronic Applications	

Descriptive Properties	Housings Value	Comments
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