PolyOne Stat-Tech™ PI-05CF/000R Black Polyether Imide (PEI)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

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-PI-05CF000R-Black-Polyether-Imide-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 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	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ASTM D638
Elongation at Break	4.2 %	4.2 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	6.06 GPa	879 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	212 MPa	30700 psi	ASTM D790
Flexural Modulus	5.96 GPa	864 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	212 °C @Thickness 6.35 mm	414 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	206 °C @Thickness 6.35 mm	403 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 1.00e+12 ohm-cm	1.00e+10 - 1.00e+12 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+10 - 1.00e+12 ohm	1.00e+10 - 1.00e+12 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 399 °C	680 - 750 °F	

Descriptive Properties	Value	Comments
Features	Antistatic	
Filler / Reinforcement	Carbon Fiber Reinforcement, 5.0% Filler by Weight	
Forms	Pellets	
Generic Material	PEI	
Generic Name	Polyether Imide (PEI)	
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	
	Housings	

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