Stat-Tech™ PI-05CF/000 BLACK K

Polyetherimide

Key Characteristics

Product Description
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.

General			
Material Status	• Commercial: Active		
Regional Availability	• North America		
Filler / Reinforcement	• Carbon Fiber		
Uses	• Aerospace Applications • Automotive Electronics • Business Equipment	• Computer Components • Connectors • Electrical Housing	• Electrical/Electronic Applications • Housings
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 8.0E-3 in/in	0.10 to 0.80 %	ASTM D955
Molding Shrinkage - Across Flow	1.0E-3 to 8.0E-3 in/in	0.10 to 0.80 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength (Yield)	20000 psi	138 MPa	ASTM D638
Tensile Elongation [2] (Break)	3.7 %	3.7 %	ASTM D638
Flexural Modulus	816000 psi	5630 MPa	ASTM D790
Flexural Strength	29000 psi	200 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	0.90 ft·lb/in	48 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	414 °F	212 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	403 °F	206 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+6 to 1.0E+11 ohms	1.0E+6 to 1.0E+11 ohms	ASTM D257
Volume Resistivity	1.0E+6 to 1.0E+11 ohms·cm	1.0E+6 to 1.0E+11 ohms·cm	ASTM D257

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	680 to 750 °F	360 to 399 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

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