

PolyOne Stat-Tech™ PI-05CF/000 EM Polyetherimide (PEI) (discontinued **)

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. Description/Features: PEI (Polyetherimide) 5% Carbon Fiber Reinforced ESD

Protection Antistatic Static Dissipative Applications: EMI? RFI Shielding Printer Components Enclosures Fuel Systems Processing Method: Injection Molding Information provided by PolyOne Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PI-05CF000-EM-Polyetherimide-PEI-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.17 mm	0.25 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	124 MPa	18000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	4.48 GPa	650 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.900 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	207 °C	405 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257
Surface Resistivity per Square	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 382 °C	670 - 720 °F	Molding

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