

PolyOne Stat-Tech™ PI-05CF/000 Polyetherimide - 5% Carbon Fibers - ESD Applications (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon Fiber Filled

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PI-05CF000-Polyetherimide-5-Carbon-Fibers-ESD-Applications-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	109	109	ASTM D785
Tensile Strength, Ultimate	124 MPa	18000 psi	ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	ASTM D638
Tensile Modulus	4.50 GPa	653 ksi	ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	4.50 GPa	653 ksi	ASTM D790
Izod Impact, Notched	0.460 J/cm @Thickness 6.35 mm	0.862 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1e+6 ohm-cm	>= 1e+6 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 382 °C	669 - 720 °F	Stock

Mold Temperature Processing Properties	121 °C Metric	250 °F English	Comments
Drying Temperature	135 °C	275 °F	

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