

PolyOne Edgetek® PI-10CF/000 Polyetherimide (PEI), Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Description/Features: Carbon Fiber Reinforced Electrically Conductive Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PI-10CF000-Polyetherimide-PEI-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.21 % @Thickness 3.17 mm	0.21 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Water Absorption at Saturation	1.2 % @Thickness 3.17 mm	1.2 % @Thickness 0.125 in	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Tensile Strength, Ultimate	138 MPa	20000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	6.89 GPa	1000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.10 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)	210 °C	410 °F	Unannealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	209 °C	408 °F	Unannealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistivity per Square	10000 ohm	10000 ohm	ASTM D257

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