

PolyOne Edgetek® PK-15CF-15GB/000 Polyetheretherketone (PEEK), Glass Bead, Carbon Fiber Reinforced (discontin

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

Description/Features:Carbon Fiber ReinforcedGlass Bead FilledPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PK-15CF-15GB000-Polyetheretherketone-PEEK-Glass-Bead-Carbon-Fiber-Reinforced-nbspdiscontin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.486 g/cc	1.486 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
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	8.96 GPa	1300 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.70 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C @Temperature 20.0 °C	12.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistivity per Square	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	382 - 404 °C	720 - 760 °F	Molding
Mold Temperature	>= 149 °C	>= 300 °F	
Drying Temperature	149 °C	300 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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