

PolyOne Edgetek® PK-40CF/000 Polyetheretherketone (PEEK), Carbon Fiber Reinforced (discontinued **)

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

Material Notes:

Description/Features: Carbon Fiber Reinforced UL 94 V0 PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PK-40CF000-Polyetheretherketone-PEEK-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Water Absorption	0.070 % @Thickness 3.17 mm	0.070 % @Thickness 0.125 in	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.00050 - 0.0010 cm/cm	0.00050 - 0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	241 MPa	35000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	20.7 GPa	3000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	20.7 GPa	3000 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.70 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	316 °C	600 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	388 - 399 °C	730 - 750 °F	Molding

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