

PolyOne Edgetek® PK-30CF/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-30CF000-Polyetheretherketone-PEEK-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	107	107	ASTM D785
Tensile Strength, Ultimate	207 MPa	30000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	17.9 GPa	2600 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	17.2 GPa	2500 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @ Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 μm/m-°C @ Temperature 20.0 °C	8.00 μin/in-°F @ Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	316 °C	600 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 100 ohm-cm	10 - 100 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	388 °C	730 °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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