

PolyOne Edgetek® PK-10GF/000 Polyetheretherketone (PEEK)

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

Material Notes:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PK-10GF000-Polyetheretherketone-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Water Absorption	0.20 % @Thickness 3.18 mm	0.20 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	124 MPa	18000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	5.52 GPa	801 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	5.17 GPa	750 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.41 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C @Thickness 3.18 mm	410 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	377 - 388 °C	711 - 730 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Heat Resistance	
Filler / Reinforcement	Glass Fiber Reinforcement, 10% Filler by Weight	
Forms	Pellets	
Generic Material	PEEK	
Generic Name	Polyetheretherketone (PEEK)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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