PolyOne Edgetek® PI-30GF/000R BLACK Polyether Imide (PEI)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

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-PI-30GF000R-BLACK-Polyether-Imide-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.18 mm	0.0010 - 0.0030 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.0090 cm/cm @Thickness 3.18 mm	0.0080 - 0.0090 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	157 MPa	22800 psi	5.1 mm/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	ASTM D638
Tensile Modulus	9.96 GPa	1440 ksi	5.1 mm/min; ASTM D638
Flexural Strength	221 MPa	32100 psi	1.3 mm/min; ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	201 °C @Thickness 3.18 mm	394 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Descriptive Properties	Value	Comments
Features	Amorphous	

Descriptive Properties	Value	Comments
	Good Chemical Resistance	
	Good Dimensional Stability	
	High Heat Resistance	
	High Rigidity	
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PEI	
Generic Name	Polyether Imide (PEI)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Aerospace Applications	
	Aircraft Applications	
	Automotive Applications	
	High Temperature Applications	
	Industrial Applications	

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