

PolyOne Edgetek® PI-1000 Polyetherimide (PEI) (discontinued **)

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. Description/Features: PEI (Polyetherimide) Unfilled Hi-Temp Applications: Multi-purpose Processing Method: Injection Molding Information provided by PolyOne Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PI-1000-Polyetherimide-PEI-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption	0.25 % @Thickness 3.17 mm	0.25 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	105 MPa	15200 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	7.0 - 8.0 %	7.0 - 8.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	2.96 GPa	430 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.00 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)	200 °C	392 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	327 - 371 °C	620 - 700 °F	Molding

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