Edgetek™ PK-000/000 EM Natural

Polyetheretherketone

PolyOne Corporation

Message:

Edgetek®The engineering thermoplastic polymer product portfolio includes a series of standard and customizable high-performance materials. The combination includes high-temperature resistant materials for high-temperature working environments, and high-modulus/structural materials for load-bearing, high-strength applications and flame-retardant products. These polymers are made by mixing engineering thermoplastic resins with different reinforcing additives, such as carbon fiber, glass fiber and glass beads.

General Information			
Features	Heat resistance, high Special specifications		
Uses	Industrial application Aerospace applications Application in Automobile Field Medical/nursing supplies		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792
Molding Shrinkage	0.70 - 1.2	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3700	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	98.0	MPa	ASTM D638
Tensile Elongation (Break)	> 20	%	ASTM D638
Flexural Modulus	3350	MPa	ASTM D790
Flexural Strength (Yield)	145	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	60	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	146	°C	ASTM D648
Glass Transition Temperature	143	°C	ASTM D3418
Melting Temperature	342	°C	ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Injection	**Nominal Value**	**Unit**	

Drying Temperature	150 - 160	°C
Drying Time	3.0 - 4.0	hr
Processing (Melt) Temp	350 - 390	°C
Mold Temperature	180 - 200	°C

Injection instructions

Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW

Recommended distributors for this material

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