Edgetek™ PK-000/000 Natural

Polyetheretherketone

Key Characteristics

Product Description			
Middle Viscosity Un-filled PEEK Resin			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Heat Resistance	• Specialty Grade	
Uses	• Aerospace Applications • Automotive Applications	• Industrial Applications • Medical/Healthcare Applications	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30	ASTM D792
Molding Shrinkage	0.70 to 1.2 %	0.70 to 1.2 %	Internal Method
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	537000 psi	3700 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	14200 psi	98.0 MPa	ASTM D638
Tensile Elongation (Break)	> 20 %	> 20 %	ASTM D638
Flexural Modulus	486000 psi	3350 MPa	ASTM D790
Flexural Strength (Yield)	21000 psi	145 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact	1.1 ft·lb/in	60 J/m	ASTM D256
Unnotched Izod Impact	No Break	No Break	ASTM D4812
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	295 °F	146 °C	
Glass Transition Temperature	289 °F	143 °C	ASTM D3418
Melting Temperature	648 °F	342 °C	ASTM D3418
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	302 to 320 °F	150 to 160 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	662 to 734 °F	350 to 390 °C
Mold Temperature	356 to 392 °F	180 to 200 °C

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Injection Notes
Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

Notes

[1] Typical values are not to be construed as specifications.

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