

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 264 psi (1.8 MPa), Unannealed	295 °F	146 °C	ASTM D648
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