

PEEK

Polyetheretherketone (PEEK), 30% Glass-Fiber Reinforced

High temperature, high chemistry, low compromise.

PEEK is a high-performance semi-crystalline thermoplastic that combines outstanding mechanical strength, chemical resistance, and continuous-use temperature in excess of 480°F. It machines cleanly, holds tight tolerances, and replaces metal in demanding service where weight, corrosion, or wear would otherwise drive cost. This grade is reinforced with chopped glass fiber for higher stiffness, strength, and dimensional stability at temperature.

GENERAL	
Density ISO 1183	1.51 g/cm³ 0.054 lb/in ³
Molding shrinkage longitudinal · ISO	0.6 %
Molding shrinkage transverse · ISO	1.2 %
MECHANICAL	
Tensile strength ISO	181 MPa 26,000 psi
Tensile modulus ISO	11100 MPa 1,609,000 psi
Elongation at break ISO	2.8 %
Impact strength (Charpy) ISO	64 kJ/m² 30 ft·lbf/in ²

ASTM D6262

ISO 10993 (MEDICAL GRADES)

ROHS / REACH

APPLICATIONS

- Aerospace bushings, brackets, and seal carriers
- Semiconductor wafer-handling and process components
- Pump impellers, seal rings, and chemical-handling parts
- Medical instruments and surgical fixtures
- Bearings, bushings, and wear components in oil & gas service

STANDARD COLORS

Natural

OPERATING ENVIRONMENT	
Glass transition temp.	143 °C 285 °F
Melting temperature	343 °C 645 °F
Service temperature short term	300 °C 570 °F
Service temperature long term	260 °C 500 °F
ELECTRICAL	
Surface resistivity EN	10¹³ Ω
Volume resistivity EN	10¹⁴ Ω·cm