

PEEK Plastic (unfilled)

Polyetheretherketone

PEEK is an amazingly durable material in sheets, rod and tube, prized for its performance in extremely corrosive environments needing high strength and machinability.

PROPERTIES/BENEFITS

- Offers Steam Resistance
- Excellent Durability
- Chemical & Corrosion Resistant
- Low Moisture Absorption
- Continuous use at 480°F
- Resistance to Gamma Radiation
- Easy to Machine



APPLICATIONS

- Chemical Plants & Tanks
- Flanges & Fittings
- Machinery Parts
- Marine Construction
- Water Treatment Systems
- Bearings & Thermal Breaks

PROPERTIES	TEST METHOD	TYPICAL RESULT
Density (lb/in ³)	ASTM D-792	0.047
Water Absorption, 24 hrs (%)	ASTM D-570	0.10
Tensile Strength (psi)	ASTM D-638	16,000
Tensile Modulus (psi)	ASTM D-638	500,000
Tensile Elongation at Break (%)	ASTM D-638	20
Flexural Strength (psi)	ASTM D-790	25,000
Flexural Modulus (psi)	ASTM D790	600,000
Elongation	ASTM D-638	400% (min)
Compressive Strength (psi)	ASTM D-695	20,000
Compressive Modulus (psi)	ASTM D-695	500,000
Hardness (Rockwell)	ASTM D-785	M100
Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	ASTM D-696	2.6
Melting Temperature (°F)	ASTM D-3418	644° F
Max Operating Temp (°F)		480° F (max)
Thermal Conductivity (BTU-in/ft ² -hr-°F)	ASTM C-177	1.75
Flamability Rating	UL94	V-0

Request a quote: sales@grmcp.com Website: www.grmcp.com

Design/specification help: eng@grmcp.com Phone: (936) 441-5910

