

PEEK

Polyether Ether Ketone

Victrex®

Available in Sheet & Rod



PEEK Overview

PEEK is high temperature-resistant engineered thermoplastic with excellent chemical and fatigue resistance and thermal stability. PEEK exhibits superior mechanical and electrical properties with a maximum continuous working temperature of 480°F and excellent retention of mechanical properties up to 570°F in a steam or high-pressure water environment. Superior chemical resistance has allowed PEEK to work effectively as a metal replacement in harsh environments. PEEK is inert to all common solvents and resists a wide range of organic and inorganic liquids.

PEEK Applications

Because of its robustness, PEEK is used to fabricate items used in demanding applications where extreme heat, pressure, and chemicals come into play.

- Bearings
- Piston Parts
- HPLC columns
- Compressor plate valves
- Cable insulation
- Medical implants
- Aerospace applications
- Chemical process applications

PEEK Features

- Excellent mechanical and chemical resistance
- Highly resistant to thermal degradation
- Excellent strength, stiffness and dimensional stability
- Easy to process
- Lightweight compared to steel, aluminum and titanium
- Low coefficient of friction
- High wear resistance without lubrication

PEEK Specifications

Friction Coefficient	0.34
Tensile Strength	14500 - 16000 PSI
Flexural Strength	24650 PSI
Shear Strength	7690 PSI
Impact Strength, Notched Izod	1.6 Ft-lbs/Inch
Hardness (Rockwell & Burrell)	R126
Deflection Temperature (264 PSI)	320F
Specific Gravity	1.31
Melting Point	644F
Elongation	40%

*Specs accurate at 73°F

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