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 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 & Burnell) R126
Deflection Temperature (264 PSI) 320°F
Specific Gravity 1.31
Melting Point 644°F
Elongation 40%

*Specs accurate at 73°F

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