

MATERIAL APPLICATIONS

PEEK Seals

PEEK seals are high-performance polymer components valued for their outstanding chemical resistance, mechanical strength, and dimensional stability. These qualities make them ideal for use in challenging environments, including high-pressure systems, elevated temperatures, and corrosive conditions.

Also referred to as: Piston Ring Seals, PEEK Back-Up Rings, PEEK Oil Seals, Rotary Shaft Seals, Thrust Rings

DETAILS ON PEEK:

High Strength and Stiffness – Excellent mechanical properties, including high tensile strength, resistance to creep, and low deformation under load.

Excellent Chemical Resistance - resistant to a wide range of chemicals, making it suitable for applications in harsh environments.

High Temperature Resistance - PEEK can maintain its properties at elevated temperatures, even in continuous use up to 250°C (480°F).

Low Moisture Absorption – The low moisture absorption helps maintain dimensional stability.

TYPICAL USAGE:

PEEK is required when there is a need for chemical resistance and high resistance to temperature and moisture.



MATERIAL

- PEEK (*Polyether Ether Ketone*)

BENEFITS

- High Strength and Stiffness
- Excellent Chemical Resistance
- High Temperature Resistance
- Low Moisture absorption
- Dimensionally stable

INDUSTRIES

- Aerospace
- Oil and Gas
- Chemical Processing
- Automotive

QUESTIONS

- What is the application/where is this being used
- What is the operating environment? (*Temperature, chemical, humidity/moisture*)
- What sizes and tolerances are required?



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