

KasPex™ PEEK

Purity is Quality & Quality is Strength

KasPex™ MP39 is Hi-Tech Seals' high-performance virgin PEEK compound. This compound offers the highest elongation and toughness in the KasPex™ PEEK family. It is naturally abrasion resistant, provides excellent wear and mechanical properties, even under thermal load.

The MP39 KasPex™ compound is highly resistant to chemically aggressive environments. It also remains unaffected by continuous exposure to hot water and steam. It possesses excellent dimensional and creep stability, which makes this material suitable for complex machined parts.

KasPex™ MP39 advantages:

- Outstanding chemical resistance
- High dimensional stability
- Superior high temperature performance
- Exceptional wear & abrasion resistance
- Remarkable flexural, impact, & tensile characteristics
- Excellent hydrolysis resistance
- High mechanical properties over a wide range of temperatures

	Standard	Values*
Hardness, Shore D	D2240	87
Tensile Strength (Yield), MPa	ISO 527	100
Elongation (Break), %	ISO 527	54
Specific Gravity	ISO 1183	1.30
General Temp. Range, °C (°F)	-	-70 to 260 (-94 to 500)

MP39 is extensively used as a back-up ring material for high pressure, high temperature applications due to its hardness. It is also an excellent material for wear rings, bearings, bushings, valve seats, and various pump components. For more information on MP39 or other KasPex™ PEEK compounds, contact our engineering department at engineering@hitechseals.com.

**The above information is correct based on our knowledge at the date of its publication. The temperature range listed is a general guideline and final suitability will depend on various application conditions. To ensure this material meets customers' final requirements and safety demands, we recommend customers conduct their own testing.*

KasPex™ MP39 is used in numerous critical applications across an endless number of markets and industries, including:

- Oil & Gas
- Chemical Processing
- Semiconductors
- Medical & Pharmaceutical
- Automotive
- Food Processing
- Conveyor Technology

