

KasPex™ PEEK

Calling in the Carbon Reinforcements

KasPex™ MP37 is Hi-Tech Seals' high-performance carbon reinforced PEEK compound. The carbon reinforcement allows the material to be used in applications where virgin PEEK does not meet the needed requirements. KasPex™ MP37 provides a low wear rate at high pressure-velocity conditions, even in abrasive environments. It ensures a significantly higher level of heat conductivity which helps increase part life in sliding applications. MP37's carbon reinforcement provides a high-level of rigidity, creep strength, and increases the load carrying capability of PEEK.

The MP37 KasPex™ PEEK compound offers the highest strength and stiffness in the KasPex™ PEEK family. It provides significantly higher thermal conductivity than virgin PEEK. It also exhibits a lower density, improved wear resistance and friction properties over glass reinforced.

KasPex™ MP37 advantages:

- Outstanding chemical resistance
- Exceptional mechanical strength, impact, & tensile characteristics
- Very low moisture absorption
- High dimensional stability
- Superior high temperature performance
- Remarkable wear & abrasion resistance
- Excellent hydrolysis resistance

	Standard	Values*
Hardness, Shore D	D2240	90
Tensile Strength (Yield), MPa	ISO 527	234
Elongation (Break), %	ISO 527	1.8
Specific Gravity	ISO 1183	1.40
General Temp. Range, °C (°F)	-	-70 to 260 (-94 to 500)

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

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



MP37 is an excellent material for back up rings, wear rings, bearings, bushings, valve seats, and various pump components. For more information on MP37 or other KasPex™ PEEK materials, 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.*

