

KasPex™ PEEK

KasPex™ PEEK is Hi-Tech Seals' family of high-performance thermoplastic PEEK. These compounds provide durability in harsh chemical environments, excellent mechanical strength, and remarkable dimensional stability. KasPex™ PEEK offers hydrolysis resistance in hot water and steam. This family of PEEK improves the performance and reliability of machined parts in innumerable applications, with new end uses being discovered on a regular basis.

KasPex™ PEEK advantages:

- Outstanding chemical resistance
- Superior high temperature performance
- Exceptional wear & abrasion resistance
- High electrical integrity
- Excellent hydrolysis resistance

The KasPex™ PEEK family of materials is composed of various compounds including:

- MP39 is our virgin PEEK that offers the highest elongation, toughness, and inertness of all the KasPex™ materials
- MP38 is our glass reinforced PEEK which provides additional rigidity and stability
- MP37 is our carbon reinforced PEEK which provides lower coefficient of friction



	Standard	MP39*	MP38*	MP37*
Hardness, Shore D	D2240	87	87.5	90
Tensile Strength (Yield), MPa	ISO 527	100	171	234
Elongation (Break), %	ISO 527	54	2.6	1.8
Specific Gravity	ISO 1183	1.30	1.51	1.40

*Typical values for injection moulded specimen.

KasPex™ PEEK has a general temperature range of -70°C to 260°C (-94°F to 500°F), specialty compounds are available for low temperature and extreme heat applications. It 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
- Plant Processing

For more information on 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.*

