

KasPex™ PEEK

Calling in the Glass Reinforcements

KasPex™ MP38 is Hi-Tech Seals' high-performance glass reinforced PEEK compound. The glass reinforcement allows the material to be used in applications where virgin PEEK does not meet the needed requirements. MP38's glass reinforcement significantly reduces the expansion rate of PEEK, while increasing its flexural modulus. It also improves the material's creep strength, dimensional stability, and stiffness.

When compared to virgin PEEK, MP38 offers increased mechanical strength and high rigidity. These properties make KasPex™ MP38 components suitable for use in applications that are exposed to high static loads over long periods in hot water or steam.

KasPex™ MP38 advantages:

- Outstanding chemical resistance
- Very low moisture absorption
- Exceptional wear & abrasion resistance
- Very high creep resistance
- High mechanical strength
- Minimal thermal expansion
- Excellent hydrolysis resistance
- Exceptional electrical & thermal insulation characteristics



	Standard	Values*
Hardness, Shore D	D2240	87.5
Tensile Strength (Yield), MPa	ISO 527	171
Elongation (Break), %	ISO 527	2.6
Specific Gravity	ISO 1183	1.51
General Temp. Range, °C (°F)	-	-70 to 260 (-94 to 500)

KasPex™ MP38 is used in numerous critical applications across an endless number of markets and industries, including:

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

MP38 is an excellent material for back up rings, wear rings, bearings, bushings, valve seats, and various pump components. For more information on MP38 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.*

