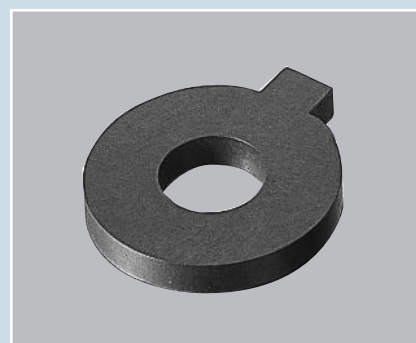




A sliding material made from polyetheretherketone (PEEK) mixed with a special filler. Polyetheretherketone (PEEK) exhibits excellent heat resistance for a thermoplastic and when mixed with a special filler, offers resistance to both heat and chemicals as well as superior tribological characteristics. Demonstrates suitable performance for a wide range of applications, including automotive parts, sports equipment, and electronic devices.

Features

1. Offers excellent friction and wear-resistance characteristics.
2. Stable even when exposed to a variety of chemicals, lubricants, and solvents.
3. Suitable for use throughout a wide range of operating temperatures.
4. Suitable for injection molding of complex shapes.
5. Also available in grades suitable for use with soft axle materials.



Material : DTK01

PEEK mixed with glass-fiber-reinforcing and special filler

Material Characteristics (typical values)

Specific gravity	Tensile strength (MPa)	Elongation (%)	Hardness (HRM)	Coefficient of expansion ($\times 10^{-5}/^{\circ}\text{C}$)
1.50 – 1.60	70 or more	2 or more	51 – 65	3 – 6

Sliding Characteristics (typical values)

Material properties	Coefficient of friction (μ)	Maximum permissible load (MPa)	Maximum permissible speed (m/min)	Operating temperature range ($^{\circ}\text{C}$)
DTK01	0.05 – 0.3	6.9	60	-40 – 260

Dimensional range

Injection-molded bearings can be made to a wide variety of complex shapes.

APPLICATION

MANUFACTURE

MATERIALS AND SIZE
Metallic Polymer

PLANNING

CORPORATE PROFILE

SPECIFICATION SHEET