



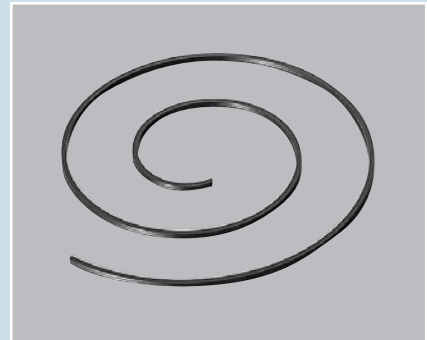
APPLICATION

A sliding material made from polyphenylene sulphide (PPS) mixed with a special filler. This material is made by adding a special filler to heat-resistant and chemical-resistant polyphenylene sulphide (PPS), which gives it frictional properties roughly identical to those of PTFE sliding materials. Demonstrates suitable performance for a wide range of applications, including office automation equipment, textile machinery, automotive parts, conveyor equipment, and food packaging equipment.

MANUFACTURE

Features

1. Offers a low coefficient of friction.
2. Stable even when exposed to a variety of chemicals and solvents.
3. Suitable for injection molding of complex shapes.
4. Also available in grades suitable for use with soft axle materials.



Polymer
Metallic
MATERIALS AND SIZE

Material : DTP11

PPS mixed with glass-fiber-reinforcing and special filler

PLANNING

Material Characteristics (typical values)

Specific gravity	Tensile strength (MPa)	Elongation (%)	Hardness (HRM)	Coefficient of expansion ($\times 10^{-5}/^{\circ}\text{C}$)
1.60 – 1.72	30 or more	2 or more	32 – 48	2 – 6

CORPORATE PROFILE

Sliding Characteristics (typical values)

Material properties	Coefficient of friction (μ)	Maximum permissible load (MPa)	Maximum permissible speed (m/min)	Operating temperature range ($^{\circ}\text{C}$)
DTP11	0.05 – 0.3	6.9	60	-40 – 200

SPECIFICATION SHEET

Dimensional range

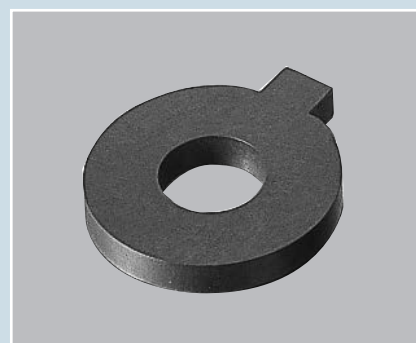
Injection-molded bearings can be made to a wide variety of complex shapes.



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