iglidur

Mainly used in areas where high-performance engineering plastics are required

Mechanical properties

Ultimate tensile strength	64.7 - 79.1 MPa
Yield strength	51.2 - 63.8 MPa
Young's modulus (modulus of elasticity)	1.58 - 1.97 GPa
Elongation at break	200 - 300 %
Hardness	16.4-18.1 HV

Physical properties

UV resistance	Fair

Thermal properties

Maximum service temperature	90 - 130 °C
Thermal expansion coefficent	88.2 - 91.8 10^-6/°C
Thermal conductivity	0.294 - 0.306 W/(m^-2C)

Electrical properties

ESD Safety	No

Common applications

Transportation	
Electronics & Electrical components	
Industrial automation	
Medical equipment	

iglidur® CNC Machining Applications & Parts

igus® iglidur® engineered plastics are specifically designed for bearing and wear applications, offering low friction, dry-running capability, and excellent wear resistance, which we unlock through precision machining.

Typical Parts We Machine from iglidur®:

- **Dry-Running Bearings:** Plain Bushings, Flange Bearings, Thrust Washers
- **Wear-Resistant Components:** Guide Rails, Sliding Elements, Gears, Sprockets
- **Custom Motion Parts:** Linkage Components, Piston Rings, Custom Bearing Inserts

Our Machining Advantage:

We understand the unique structure of iglidur® materials and machine them to preserve their surface properties, ensuring optimal performance for motion and wear applications right out of the machine.

Get an Instant Quote for your custom iglidur® parts today.