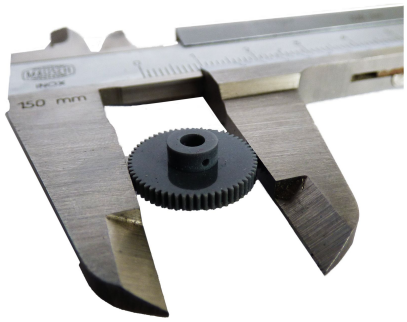
iglidur® i3000, 3D printing resin

I3000-PR-1000



iglidur® i3000, 3D printing resin

- Wear-resistant: min. 30 to 60 times longer service life compared to conventional 3D printing resins
- High strength and rigidity (flexural strength 90MPa)
- Self-lubricating and low maintenance
- High level of detail: resolution down to 35µm
- Easy to process on DLP and LCD printers

Product description

Discover iglidur i3000 3D printing resin, the first resin specifically designed for wear parts. With a service life 30 to 60 times longer than conventional resins, it is perfect for demanding applications. The high resolution of up to 35 µm enables the production of filigree components with precise details. In addition, the parts are self-lubricating and low-maintenance. Easy to process on DLP and LCD printers.

Dimensions

Net weight	1000 g

Electricity attributes

Specific transitional resistance	> 10^{12}Ωcm
Surface resistance	> 10^{11}Ω

General properties

Colour	grey
Density	1.3 g/cm³
Max. moisture absorption	1.8 Wt.- %
Max. total moisture absorption	3.2 Wt.- %

Thermal properties

Max. long-term application temperature	80 °C
Max. short-term application temperature	100 °C
Lower application temperature	-20 °C

Dynamic properties

Coefficient of friction, dynamic, against 304 stainless steel	0.2200
Max. recommended surface pressure	20 MPa

Properties and approvals

PFAS-tested	No

Mechanical properties

Tensile strength	43 MPa
Tensile modulus of elasticity	1750 MPa
Flexural strength (at 20°C/68°F)	90 MPa
Modulus of elasticity	3010 MPa
Shore D hardness	78.0000