

iglidur® i4000, 3D printing resin

I4000-PR-1000



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- High precision: tooth module $m = 0.16$
- Min. 3.5 times longer service life than that of standard resins
- Self-lubricating and low maintenance
- For processing on DLP and LCD printers

Product description

Introducing iglidur i4000, a specialized 3D printing resin designed for high-precision gear applications. This innovative material boasts a tooth module of $m = 0.16$ and offers a service life at least 3.5 times longer than standard resins. Self-lubricating and low-maintenance, iglidur i4000 is perfect for intricate designs that require exceptional detail. Compatible with DLP and LCD printers, it's the ideal choice for precision engineering. Elevate your 3D printing projects with iglidur i4000.

Dimensions

Net weight	1000 g
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General chemical resistance

High chemical resistance	No
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Electricity attributes

Specific transitional resistance	$> 10^{12} \Omega \text{cm}$
Surface resistance	$> 10^{11} \Omega$

General properties

Colour	dark grey
Density	1.27 g/cm^3
Max. moisture absorption	0.02 Wt.-%
Max. total moisture absorption	6.5 Wt.-%



Thermal properties

Max. long-term application temperature	63 °C
Max. short-term application temperature	80 °C
Lower application temperature	-20 °C

Dynamic properties

Coefficient of friction, dynamic, against 304 stainless steel	0.4100
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Properties and approvals

EU 10/2011 compliant	No
PFAS-tested	No

Mechanical properties

Tensile strength	37 MPa
Tensile modulus of elasticity	1139 MPa
Flexural strength (at 20°C/68°F)	59 MPa
Modulus of elasticity	1672 MPa
Shore D hardness	73.0000