

iglidur® i4000, 3D printing resin

I4000-PR-1000



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- High precision: tooth module $m = 0.2$
- 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

Discover iglidur® i4000, a high-quality 3D printing resin specially developed for precision gear applications. With a service life at least 3.5 times longer than conventional resins and 13 times higher elongation at break than iglidur i3000, this self-lubricating material is ideal for complex structures and gear applications up to gear module $m = 0.2$. It can be processed on DLP and LCD printers. Perfect for applications where maximum precision is required. Avoid skin contact and follow the processing instructions.

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