

iglidur® i2000, 3D printing resin

I2000-PR-1000



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- Excellent friction and wear properties: 50 to 80 times longer service life than standard technical resins
- PTFE-free
- Flexural strength: 74MPa
- Temperature resistance up to 100°C
- Self-lubricating and low maintenance

Product description

The iglidur® i2000 3D printing resin offers excellent friction and wear properties – without any PTFE. This innovative and sustainable material is self-lubricating, low-maintenance and temperature-resistant up to 100 °C. Compared to standard resins, it impresses with a friction coefficient that is half as high and a service life that is 50 to 80 times longer. This makes it ideal for heavy-duty applications.

Dimensions

Net weight	1000 g
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Electricity attributes

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

General properties

Colour	black
Density	1.14 g/cm³
Max. moisture absorption	0.16 Wt.- %
Max. total moisture absorption	0.39 Wt.- %

Thermal properties

Max. long-term application temperature	100 °C
Max. short-term application temperature	120 °C
Lower application temperature	-20 °C



Dynamic properties

Coefficient of friction, dynamic, against 304 stainless steel	0.3600
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Properties and approvals

PFAS-tested	Yes
PTFE-free	Yes

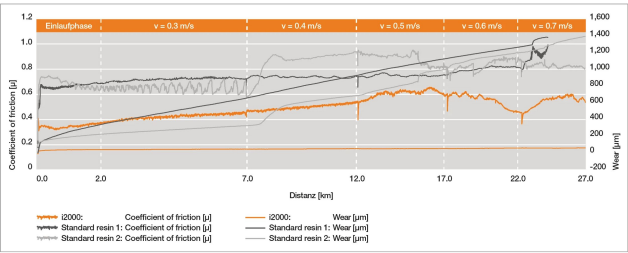
Mechanical properties

Tensile strength	40 MPa
Tensile modulus of elasticity	1511 MPa
Flexural strength (at 20°C/68°F)	74 MPa
Modulus of elasticity	2870 MPa
Shore D hardness	80.0000

Certificates and standards



Additional information and diagrams



Comparison of coefficient of friction and wear: standard resin vs. iglidur® i2000