

iglidur® i6000, 3D printing resin
I6000-BLUE-PR-1000



iglidur® i6000, 3D printing resin

- Specifically designed for food-contact applications
- Up to 26 times more wear-resistant than standard resin
- For use with DLP and LCD printers

Product description

The iglidur® i6000 triboresin was specifically developed for the manufacture of wear parts intended for contact with food. Available in white and blue, it is ideal for applications in the food, packaging, and pharmaceutical industries, as well as in laboratory automation. It offers top quality for 3D-printed parts with exceptionally smooth surfaces (roughness Ra = 0.8 µm; Rz = 4.2 µm) without the need for additional post-processing. The result: less residue on the surface and easier cleaning of the parts.

Dimensions

Net weight	1000 g
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General properties

Colour	blue
Density	1.08 g/cm³
Max. moisture absorption	0.24 Wt.- %
Max. total moisture absorption	0.89 Wt.- %

Thermal properties

Max. long-term application temperature	95 °C
Max. short-term application temperature	115 °C
Lower application temperature	-20 °C

Dynamic properties

Coefficient of friction, dynamic, against 304 stainless steel	0.2700
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Properties and approvals

EU 10/2011 compliant	Yes
FDA compliant	Yes
PFAS-tested	Yes
PTFE-free	Yes

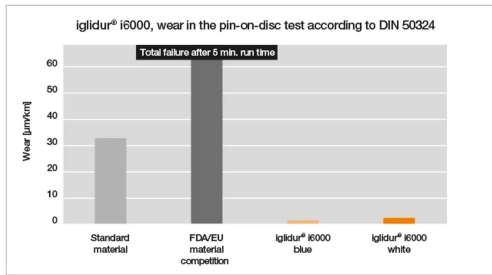
Mechanical properties

Tensile strength	48 MPa
Tensile modulus of elasticity	1575 MPa
Flexural strength (at 20°C/68°F)	87 MPa
Modulus of elasticity	2590 MPa
Shore D hardness	78.0000

Certificates and standards



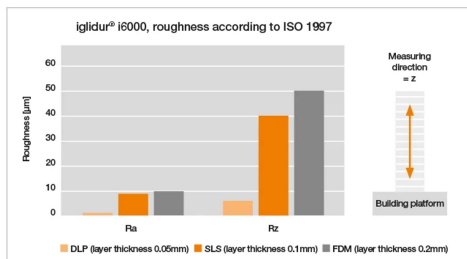
Additional information and diagrams



Test parameters: 1.4MPa; 0.5m/s; total run time 17hrs, mating partner 304 stainless steel

Wear in pin-on-disc test according to DIN 50324

Test parameters: Result: iglidur i6000 is up to 26 times more wear-resistant than standard resin.



Standard layer thicknesses of the processes
Measuring direction = z for best comparability

Surface roughness test according to ISO 1997

Standard Layer Heights of the used processes Measuring direction = z for optimal comparability

Result: Components made of iglidur i6000 using the DLP process exhibit surface roughness that is up to 10 times lower than that of components produced using other methods.