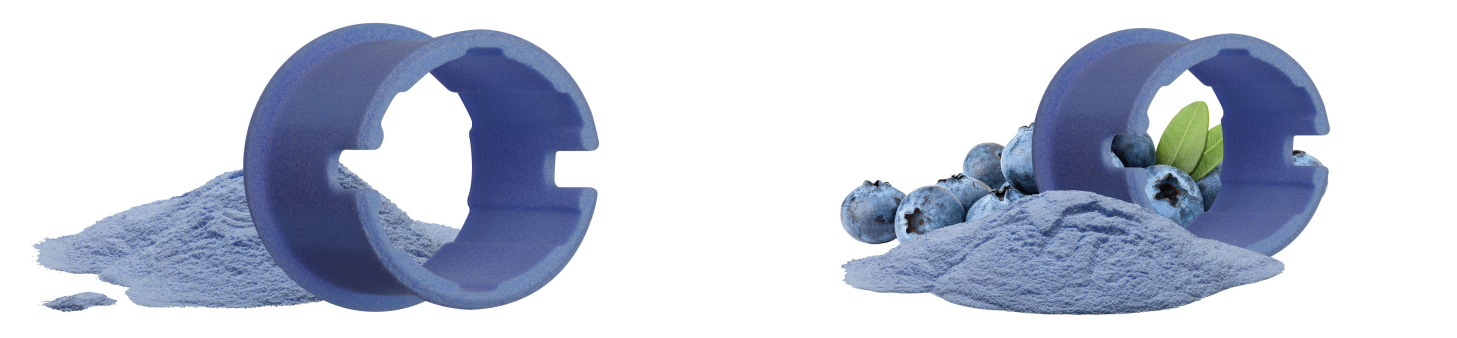


iglidur® i6-BLUE, SLS material

I6-BLUE-PL-10000



iglidur® i6-BLUE, SLS material

- Good wear resistance
- FDA-compliant for food contact
- Visually detectable

Product description

Introducing iglidur® i6-BLUE, a premium laser sintering material designed for food contact applications. This robust, food-compatible material meets FDA standards and features a striking blue color for optical detectability. With exceptional abrasion resistance and accurate surface details, it is perfect for manufacturing worm wheels and sliding components. Enjoy the flexibility of efficient production without minimum order quantities, making it an ideal choice for your specific needs.

Electricity attributes

Specific transitional resistance

Surface resistance

Physical properties

Thermal expansion coefficient (at 23°C/73°F)	12 K ⁻¹ 10 ⁻⁵ , test method DIN 53752
Heat conductivity	0.14W/(m K), ASTM C 177 test method

General properties

Colour	pastel blue
Density	1.06 g/cm ³
Max. moisture absorption	0.8 Wt.-%
Max. total moisture absorption	1.9 Wt.-%

Dynamic properties

Coefficient of sliding friction, dynamic, against Cf53 steel	0.3900
Coefficient of friction, dynamic, against 304 stainless steel	0.2200
pv value, max. (dry)	0.35MPa m/s
Max. recommended surface pressure	34 MPa



Thermal properties

Max. long-term application temperature	80 °C
Max. short-term application temperature	140 °C
Lower application temperature	-40 °C

Properties and approvals

Food industry	Yes
FDA compliant	Yes
PFAS-tested	No
ESD compliant	No

Mechanical properties

Tensile strength printed flat	31 MPa
Tensile strength printed upright	28 MPa
Tensile modulus of elasticity	1400 MPa
Flexural strength printed flat	49 MPa
Flexural strength printed upright	38 MPa
Modulus of elasticity	1100 MPa
Shore D hardness	67.0000
Compressive strength	44 MPa