

iglidur® i180, filament for 3D printing

I180-BL-PF-0175-0700



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- Wear-resistant at temperatures up to 100 °C
- Low wear and low coefficient of friction in plain bearing applications
- Easy to process on 3D printers with a closed build chamber and igus bonding agent

Product description

Introducing the iglidur i180 filament for 3D printing, a versatile choice from igus. This self-lubricating material is ideal for wear parts like bearings and gears, offering high wear resistance and temperature resilience up to 100°C. Designed for dynamic applications, it ensures excellent performance in enclosed 3D printers. With a longer running length on a wider spool, this filament is perfect for your next project. Elevate your 3D printing experience with iglidur i180.

Physical properties

Thermal expansion coefficient (at 23°C/73°F)	9 K-1 10-5, test method DIN 53752
Heat conductivity	0.23 W/(m K), test method ASTM C 177

Thermal properties

Max. long-term application temperature	100 °C
Max. short-term application temperature	120 °C
Lower application temperature	-40 °C

Dynamic properties

Coefficient of sliding friction, dynamic, against Cf53 steel	0.1700
Coefficient of friction, dynamic, against 304 stainless steel	0.1700

General properties

Colour	black
Density	1.21 g/cm³
Max. moisture absorption	0.3 Wt.-%
Max. total moisture absorption	0.9 Wt.-%



Dimensions

Net weight	700 g
Outer diameter spool	200 mm
Inner diameter spool	52 mm
Spool width	55 mm

Processing instructions

Bed temperature (min.)	90 °C
Bed temperature (max.)	110 °C
Nozzle temperature (min.)	250 °C
Nozzle temperature (max.)	265 °C
Suitable for glue stick	Yes

Properties and approvals

Food industry	No
PFAS-tested	No
Flame-retardant	No
Mould-resistant according to DIN EN ISO 846 Procedure A	No

Mechanical properties

Flexural strength printed flat	46 MPa
Flexural strength printed upright	33 MPa
Modulus of elasticity printed flat	1000 MPa
Shore D hardness	66.0000