

iglidur® i230, SLS material
I230-PL-10000



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- Excellent mechanical properties
- Highest wear resistance for gears
- Temperature-resistant up to 110 °C

Product description

Introducing the iglidur i230, a versatile SLS material from igus. Designed for applications requiring high performance, it withstands long-term temperatures up to 110°C and boasts the highest flexural strength in its class. This PFAS-free material is also 80% more wear-resistant than PA12 and electrostatically dissipative, making it ideal for demanding environments. Choose iglidur i230 for reliable, durable components that meet your high-temperature and mechanical strength needs.

Electricity attributes

Specific transitional resistance	10 ⁴ - 10 ⁶ Ωxcm
Surface resistance	

General properties

Colour	black
Density	1.2 g/cm³
Max. moisture absorption	0.8 Wt.-%
Max. total moisture absorption	1.9 Wt.-%

Thermal properties

Max. long-term application temperature	110 °C
Max. short-term application temperature	170 °C
Lower application temperature	-40 °C

Dynamic properties

Max. recommended surface pressure	35 MPa
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Properties and approvals

Food industry	No
PFAS-tested	Yes
PTFE-free	Yes
ESD compliant	No

Mechanical properties

Tensile strength printed flat	61 MPa
Tensile strength printed upright	45 MPa
Flexural strength printed flat	94 MPa
Flexural strength printed upright	70 MPa
Modulus of elasticity printed flat	3700 MPa
Modulus of elasticity printed upright	2400 MPa
Shore D hardness	82.0000

Certificates and standards

