

iglidur® i9-ESD, SLS material

I9-ESD-PL-10000



iglidur® i9-ESD, SLS material

- Electrostatic dissipative (ESD)
- Volume resistance $10^6 - 10^9 \text{ Ohm} \times \text{cm}$
- Increased rigidity
- Colour: black (continuous)
- Can be processed on all SLS systems with and without CO2 laser
- Also available with the 3D printing service from 5-10 days

Product description

Introducing the iglidur i9-ESD from igus, a cutting-edge SLS material designed for electrostatic dissipative applications. With a volume resistance of 10^6 to $10^9 \text{ Ohm} \times \text{cm}$, it minimizes the risk of discharge currents, making it perfect for the electronics and semiconductor industries. This black material offers increased rigidity and UV resistance, ideal for underwater applications and electronic connectors. Compatible with all SLS systems, it's your go-to choice for reliable, wear-resistant components.

Electricity attributes

Specific transitional resistance	$10^6 - 10^9 \Omega \times \text{cm}$
Surface resistance	$10^6 - 10^9 \Omega$

General properties

Colour	dark grey
Density	1.03 g/cm^3
Max. moisture absorption	0.8 Wt.-%
Max. total moisture absorption	1.9 Wt.-%

Thermal properties

Max. long-term application temperature	80 °C
Max. short-term application temperature	140 °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	No
ESD compliant	Yes

Mechanical properties

Tensile strength printed flat	40 MPa
Flexural strength printed flat	60 MPa
Modulus of elasticity printed flat	1830 MPa
Shore D hardness	72.0000