igumid® P150, filament for 3D printing

P150-PF-0175-0750





igumid® P150, filament for 3D printing

- Carbon fiber-reinforced material for structural components
- High strength and stiffness, temperature-resistant up to 100 °C
- Easy to process on all standard 3D printers with a hardened nozzle

Product description

Introducing igumid P150, a high-strength filament designed for 3D printing. This robust and rigid material features fiber reinforcement, making it perfect for structural components and multi-material applications. Ideal for lightweight construction, igumid P150 ensures low material usage while delivering exceptional strength. Enhance your printing experience with this versatile filament, compatible with your own printer or available through our 3D printing service. Explore the potential of igumid P150 today!

Thermal properties

Max. long-term application temperature	100 °C
Max. short-term application temperature	125 °C
Lower application temperature	-30 °C

General properties

Colour	black
Density	1.4 g/cm³
Max. total moisture absorption	0.3 Wt.- %

Dimensions

Net weight	750 g
Outer diameter spool	200 mm
Inner diameter spool	52 mm
Spool width	67 mm

Processing instructions

Bed temperature (min.)	70 °C
Bed temperature (max.)	80 °C
Construction space	No closed installation space necessary
Nozzle temperature (min.)	280 °C
Nozzle temperature (max.)	320 °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

Tensile strength printed flat	66 MPa
Tensile modulus printed flat	2849 MPa
Flexural strength printed flat	117 MPa
Modulus of elasticity printed flat	6476 MPa