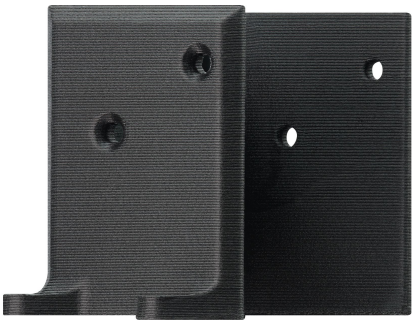
igumid® P190, filament for 3D printing

P190-PF-0175-0750





igumid® P190, filament for 3D printing

- Maximum strength and stiffness thanks to carbon fiber reinforcement
- Suitable for structural parts and multi-material parts
- Flexural strength up to 167 MPa

Product description

Introducing igumid P190, a high-strength filament designed for 3D printing. This innovative material is reinforced with carbon fibre, making it incredibly strong and stiff, perfect for structural components and multi-material applications. With a low density of 1.25g/cm³, it supports lightweight construction while ensuring durability. Ideal for creating stable parts and special mounting brackets, igumid P190 is your go-to choice for projects requiring high performance and reliability.

Thermal properties

Max. long-term application temperature	120 °C
Max. short-term application temperature	140 °C
Lower application temperature	-40 °C

General properties

Colour	black
Density	1.25 g/cm³
Max. moisture absorption	1.4 Wt.- %
Max. total moisture absorption	3.7 Wt.- %

Dimensions

Net weight	750 g
Outer diameter spool	200 mm
Inner diameter spool	52 mm
Spool width	55 mm

Processing instructions

Bed temperature (min.)	75 °C
Bed temperature (max.)	90 °C
Nozzle temperature (min.)	270 °C
Nozzle temperature (max.)	300 °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	163 MPa
Flexural strength printed upright	70 MPa
Modulus of elasticity printed flat	7.5 GPa
Modulus of elasticity printed upright	2.8 GPa
Shore D hardness	83.0000