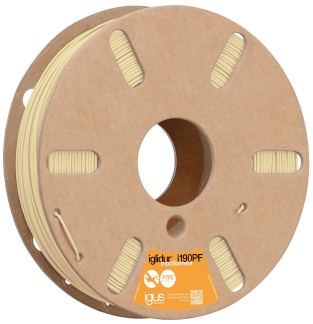
iglidur® i190PF, 3D printing filament

I190PF-PF-0175-0750



PREVIEW NOT AVAILABLE

iglidur® i190PF, 3D printing filament

- PTFE-free and PFAS-tested
- Temperature-resistant up to 90 °C
- Easy to process on all standard 3D printers

Product description

The iglidur® i190PF 3D printing filament is a wear-resistant, PTFE-free all-rounder that delivers excellent friction and wear properties. It is up to 78 times more durable than PETG and is ideal for applications involving higher loads. Easy to process on standard 3D printers, it offers a sustainable alternative to PTFE-containing filaments — without compromising on performance.

Electricity attributes

Specific transitional resistance	> 10^{13} Ωcm
Surface resistance	> 10^{12} Ω

Thermal properties

Max. long-term application temperature	90 °C
Max. short-term application temperature	120 °C
Lower application temperature	-40 °C

General properties

Colour	beige
Density	1.22 g/cm³
Max. moisture absorption	0.25 Wt.- %
Max. total moisture absorption	1.4 Wt.- %

Dynamic properties

Coefficient of friction, dynamic, against 304 stainless steel	0.2500

Dimensions

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

Processing instructions

Bed temperature (min.)	70 °C
Bed temperature (max.)	90 °C
Construction space	No closed build chamber required
Nozzle temperature (min.)	270 °C
Nozzle temperature (max.)	290 °C
Suitable for glue stick	Yes

Properties and approvals

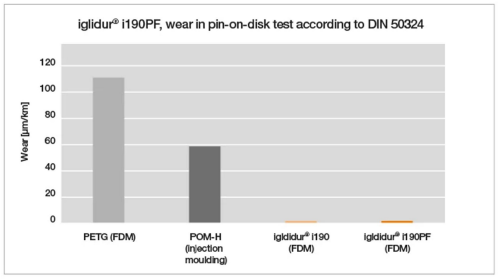
Food industry	No
PFAS-tested	Yes
PTFE-free	Yes
Flame-retardant	No
Mould-resistant according to DIN EN ISO 846 Procedure A	No

Mechanical properties

Tensile strength printed flat	45 MPa
Tensile modulus printed flat	1409 MPa
Flexural strength printed flat	85 MPa
Modulus of elasticity printed flat	3090 MPa
Shore D hardness	71.0000

Certificates and standards

Additional information and diagrams



Test parameters: 1.4MPa; 0.5m/s; total run time 17hrs, mating partner 304 stainless steel

Wear in pin-on-disk test according to DIN 50324
Test parameters:
Result: Like iglidur i190, iglidur i190PF is up to 78 times more wear-resistant than PETG filament.