



Infilus™ PETG

Reliable. High-flow. Clean finish.

Infilus™ PETG is a premium-grade 1.75 mm filament engineered for dependable everyday printing. It combines excellent layer adhesion, low warping and a clean surface finish with high printing speeds, making it ideal for both functional prototypes and durable end-use parts.

DIAMETER

1.75 ± 0.02 mm

ORIGIN

Made in Germany

www.infilus.com

NET WEIGHT

1 kg (2.2 lb)

PACKAGING

Recycled spool & box

PHYSICAL PROPERTIES

Property	Testing Method	Typical Value
Density	ISO 1183	1.27 g/cm³ at 23 °C
Melt flow index	ISO 1133 (250 °C, 2.16 kg)	12 g/10 min
Moisture absorption (24 h)	ISO 62	0.18 %
Filament diameter tolerance	Laser gauge, in-line	± 0.02 mm
Roundness	Laser gauge, in-line	> 99.5 %

THERMAL PROPERTIES

Property	Testing Method	Typical Value
Glass transition temperature	DSC, 10 °C/min	80 °C
Vicat softening temperature	ISO 306	78 °C
Heat deflection temperature	ISO 75 @ 0.45 MPa	70 °C
Heat deflection temperature	ISO 75 @ 1.80 MPa	65 °C
Decomposition temperature	TGA, 20 °C/min	405 °C

MECHANICAL PROPERTIES

Property	Testing Method	Typical Value
Tensile strength (X-Y)	ISO 527	48 ± 2 MPa
Tensile strength (Z)	ISO 527	45 ± 2 MPa
Young's modulus (X-Y)	ISO 527	2 200 ± 60 MPa
Young's modulus (Z)	ISO 527	2 000 ± 120 MPa
Elongation at break (X-Y)	ISO 527	9 ± 2 %
Elongation at break (Z)	ISO 527	4 ± 2 %
Flexural strength (X-Y)	ISO 178	78 ± 3 MPa
Flexural modulus (X-Y)	ISO 178	2 280 ± 90 MPa
Charpy impact, notched (X-Y)	ISO 179	5.0 ± 0.6 kJ/m²
Charpy impact, unnotched (X-Y)	ISO 179	20 ± 3 kJ/m²

Typical values – not a specification. Actual values may vary with printing conditions and part geometry.

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RECOMMENDED PRINTING CONDITIONS

Parameter	Value
Nozzle temperature	230 – 250 °C
Build plate temperature	70 – 85 °C
Build surface	PEI, glass, PC
Printing speed	up to 120 mm/s
Cooling fan	30 – 70 %

Parameter	Value
First layer height	0.2 mm
Retraction distance	1 – 3 mm
Retraction speed	25 – 40 mm/s
Drying (if required)	65 °C / 4 h
Enclosure	Not required

Parameters based on a 0.4 mm nozzle. Adjust for different nozzle diameters. For optimal results, dry the filament at 65 °C for 4 h before printing after long storage.

CHEMICAL RESISTANCE

Agent	Effect	Agent	Effect
Weak acids	Good	Weak alkalis	Fair
Strong acids	Poor	Strong alkalis	Poor
Oils & greases	Good	Alcohols	Good
Aliphatic hydrocarbons	Good	Aromatic hydrocarbons	Poor
Water (ambient)	Good	Ketones	Poor

LEGEND
Good — minor effect after prolonged contact at ambient temperature.
Fair — suitable for short-term contact at ambient temperature.
Poor — material becomes unstable on contact at ambient temperature.

STORAGE & HANDLING

Store the filament sealed in its original packaging in a cool, dry environment (15 – 25 °C, < 50 % RH). Although PETG is less hygroscopic than most engineering polymers, prolonged exposure to humidity can affect surface finish and layer adhesion. If the filament has been exposed to humid air for more than 48 hours, dry at 65 °C for 4 h before printing. A dry-box or heated filament chamber is recommended for continuous printing.

AVAILABLE COLORS

Swatch colors are representative approximations.



DISCLAIMER

All figures on this data sheet describe the typical behaviour of Infilus™ PETG and are provided as general guidance. They are not contractual specifications and must not be used on their own to qualify parts, set acceptance criteria, or validate regulated applications. Real-world results depend on the printer, slicer settings, nozzle wear, environmental conditions and part geometry, so customers are strongly advised to run their own trials before committing the material to a production or end-use application. Infilus may adjust formulations, suppliers or packaging whenever we believe it improves quality; when that happens, this sheet will be revised and the version number updated. Customers remain responsible for ensuring that their chosen application complies with all local laws, safety standards and recycling obligations. Infilus does not assume liability for any direct or indirect damage, loss or injury connected to the handling, printing or end use of this product, and no warranty is given beyond what is expressly agreed in a separate written contract.