

PETG

TECHNICAL DATA SHEET

PETG is a medical-grade filament made from polyethylene glycol. This filament is made from ISO1993-5-certified granules. This amorphous thermoplastic can be used to make 3D parts such as prototype packaging for medical devices, or prototypes of medical devices in contact with fluids (respirators, breathing tubes,

PRODUCT IDENTIFICATION

Product	PETG - Polyethylene glycol
Reference	PF - PTG
Technology	FDM - Filament deposition
Diameter	1.75 mm - 2.85 mm
Color	Transparent
Rigidity	Rigid
Sterilization	Ethylene oxide

ADVANTAGES

- High thermal resistance
- Low deformation
- Good mechanical

APPLICATIONS

- Packaging and prototypes for medical devices
- Blister prototypes

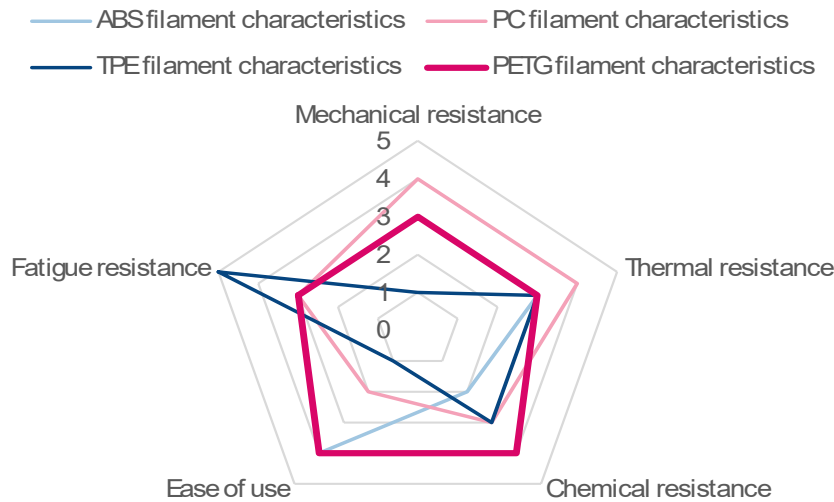
TECHNICAL PROPERTIES

Melting range (DSC, 10°C/min)	Amorphous
Glass transition	70-90°C
Degradation temperature	>250°C
Maximum stress (tensile)	35 MPA
Elongation at break	7 %
Young's modulus	unknown

PRINTING PROPERTIES

Printing temperature	230-245°C
Build plate temperature	75-85°C
Print speed	40-70 mm/s
Cooling fan speed	10 - 50 %

PERFORMANCE PROFILE OF OUR FILAMENTS



USE INDEX

We recommend the use of enclosed 3D printers with a platen capable of heating to over 120°C, and able to accept 2.85mm or 1.75mm filament.

Warning: The source material has been evaluated according to ISO 10993-5 (cytotoxicity) only. It is not intended for implantable use. In the event of transformation (e.g. 3D printing), the user must ensure the absence of contamination and the compatibility of the finished product with its final application.

DISCLAIMER OF LIABILITY

The values presented in this document are for reference and comparison purposes only. These data may vary according to printing conditions, materials, part design and environmental conditions, and should not be used for specification or quality control purposes.

Each user is responsible for compliance with product and employee safety standards, for use of the product, and for compliance with environmental, waste disposal and recycling regulations. Lattice Services gives no warranty, unless separately stated, as to suitability for any particular use or application.

Lattice Services shall not be liable for any damage, injury or loss resulting from the use of these materials in any application.

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