



Technical data sheet

PC

PC is a medical grade filament made from polycarbonate. This filament is made from granules complying with ISO 10993-5 certification for skin contact, it is also autoclavable and can be used in the operating room for guided surgeries. This amorphous thermoplastic will make it possible to make 3D parts with skin contact applications such as surgical guides and cutting guides, medical instruments...



Product identification

Product	PC - Polycarbonate
Reference	PF-PCT
Technology	FDM - Filament Deposition
Diameters	1.75 mm - 2.85 mm
Colors	Transparent with blue reflections
Rigidity	Rigid
Sterilization	Gamma ray / EtO / Autoclave

Benefits

- High mechanical strength
- High thermal resistance

Applications

- Prototyping - Research and Development
- Surgical guides and autoclavable cutting guides
- Connecting components for tubing
- Medical Devices

Technical properties

TESTS	SECURITIES
Blending range	Amorphous
Glass transition	135-155°C
Degradation temperature	>300°C
Maximum train (traction)	60 MPA
Elongation at break	15%

Print properties

Printing temperature	255-275°C
Tray temperature	120-140°C
Print speed	20-40 mm/s
Cooling fan speed	0-5%

Indication for use

We advise you to use closed 3D printers with a tray that can heat to more than 120 ° C and can receive 2.85mm or 1.75mm filament.

Warning: Under no circumstances can this product be implanted in humans. Lattice Services assumes no responsibility for the medical use of this product.

Disclaimer

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

Each user is responsible for compliance with the safety standards of the product and its employees, its use, respect for the environment, waste disposal and recycling rules. Lattice Services makes no warranty, unless separately stated, as to fitness for any 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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