LATTICE SERVICES

# 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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