

Technical data sheet

ABS

The ABS is a medical grade filament composed of acrylonitrile butadiene styrene. This filament is made from granules complying with the 10993-5 standard. This amorphous thermoplastic will make it possible to make 3D parts such as surgical planning models or prototypes of boxes and interfaces in contact with the skin for patient monitoring.



Product identification

Product	ABS – Acrylonitrile Butadiene Styrene
Reference	PF-ABS
Technology	FDM - Filament Deposition
Diameters	1.75 mm – 2.85 mm
Color	Ivory
Rigidity	Rigid
Sterilization	Gamma ray / EtO

Benefits

- High thermal resistance
- Low deformation
- Good mechanical resistance
- Good impact resistance

Applications

- Basic equipment for medical electronic devices
- Surgical Planning Model

Technical properties

TESTS	SECURITIES
Blending range	Amorphous
Glass transition	95-115°C
Degradation temperature	>250°C
Maximum train (traction)	41 MPA
Elongation at break	36%

Print properties

Printing temperature	220-240°C
Tray temperature	100-115°C
Print speed	20-50 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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