Technical Data Sheet

PLGA – GLYCOLACTISSE 85/15

Medical grade copolymer filament

PLGA 85:15 POLY(LACTIC-CO-GLYCOLIC ACID) is a transparent, slightly golden amorphous thermoplastic that resorbs within 12 to 24 months after implantation. The polymer is quite rigid because at room temperature it is above the glass transition. This material is currently used to make bone implants and tissue engineering.

Product identification

Product	PLGA – 85/15 L-Lactide/Glycolide Copolymère
Reference	PF-PGA
Product date	XX/XX/XXXX
Expiry date	XX/XX/XXXX
Technology	FDM
Diameter	1,75 mm or 2,85 mm
Colors	Transparent – Slightly golden
Conservation	After opening the package, keep it in a dry, well-ventilated place. If possible, place the reels in a vacuum pack and protect them from humidity. Finally, if the packaging is well sealed, the coils can be placed in the refrigerator at 4°C.

Advantages

- Bioabsorbable
- Biocompatible
- Implantable
- Easy to use

Applications

- Bone implant
- Orthopaedic screw
- ...

Technical properties

TESTS	RESULTS
Comonomer ratio, L-lactide	85 mol%
Comonomer ratio, Glycolide	15 mol%
Melting range (DSC, 10°C/min)	140 – 160°C
Glass transition (DSC, 10°C/min)	60 - 65°C
Degradation temperature	>250°C
Molar mass (g/mol)	220 000 – 260 000 g/mol

Print properties

Printing temperature	180-230°C
Build plate temperature	50-70°C
Print speed	10-90 mm/s
Cooling fan speed	60-100 %

Indication of use

GLYCOLACTISSE 85:15 is compatible with most 3D printers equipped with a heating plate and can accept 2.85mm or 1.75mm filament.

Advice: For optimum print quality, it is advisable to dry the product in an oven for 48 hours at 40 ° C.

Warning: **In no case this product can be implanted in humans. Lattice Medical declines any responsibility for the medical use of this product**

Disclaimer of liability

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

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