

July 2019 LATTICE SERVICES Version 1.0

Reference: IFU-BOB-PDO-0002

Technical Data Sheet PDO- DIOXACTISSE 100

Medical grade polymer filament

PDO or Polydioxanone is a white semi-crystalline thermoplastic. It degrades quickly once implanted in 4 to 6 months. Although very crystalline, the polymer has a lower glass transition temperature than room temperature, which guarantees a certain flexibility. Thus, this material is generally used to make sutures, textile mesh, tissue engineered scaffolds



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Product identification

Item nr	X	
Product	PDO 100 - Polydioxanone	
Reference	PF-PDO	
Production date	X	
Expiry date	X	
Technology	FDM	
Diameters	1.75 mm - 2.85 mm	
Colours	White	
	After opening the package, keep it in a dry, well-ventilated place. If	
Conservation	possible, place the reels in a vacuum pack and protect them from	
Conservation	humidity. Finally, if the packaging is well sealed, the coils can be	
	placed in the refrigerator at 4°C.	

Advantages

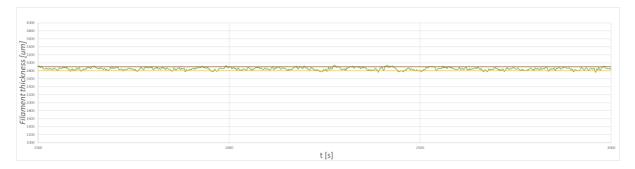
- Bioabsorbable
- Biocompatible polymer
- Implantable
- Flexible
- Short degradation time

Applications

- Sutures
- Meshes
- ..

Technical properties

TESTS	RESULTS
Melting range (DSC, 10°C/min)	95 - 110°C
Glass transition (DSC, 10°C/min)	-21°C
Degradation temperature	>240°C
Molar mass (g/mol)	140 000 - 180 000g/mol



Print properties

Printing temperature	180-230°C
Build plate temperature	Room temperature
Print Speed	20 - 60 mm/s
Cooling fan speed	60 - 100 %

Indication of use

DIOXACTISSE 100 is compatible with most 3D printers equipped with a heating plate and can receive 2.85mm or 1.75mm filament.

<u>Warning</u>: 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.

Each user is responsible for the safety of the product, its employees, its use, the environment and the disposal and recycling of waste. Lattice Services doesn't give any guarantee, unless it's announced separately, as to the suitability for any use or application.

Lattice Services isn't responsible for any damage, injury or loss resulting from the use of these materials in any application.