

TECHNICAL DATA SHEET

Centaur PP

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Product specifications

Centaur PP is a lightweight and high-performance Polypropylene 3D printer filament. Centaur PP 3D prints with a superb interlayer adhesion and features outstanding mechanical properties.

Important key features

Food contact compliant natural variant
Watertight printing possible with only single wall prints
Shore hardness of D50

Suitable applications

Prosthetics
Orthopaedics
Medical

Recommended pretreatment

Drying
Recommended
50 - 60 °C
24 h

Print with
Enclosure Yes
Dry box No

Recommended print settings regular speed

Print speed 25 - mm/s
Nozzle temperature 245 - 270 °C
Bed temperature 80 - 85 °C
Fan speed 0 - 50 %

Material properties

Material properties	Typical value	Unit of Measure	Test method	Test condition
Density	0,89	g/cm ³		
Specific gravity				
Melt flow rate	8	g/10min	ISO 1183	230°C/2,16kg

Mechanical properties

Impact strenght	30	kJ/m ²	ISO 179-1eA	Izod Notched 23°C
Tensile strenght at yield	12	MPa	ASTM D638	
Tensile strenght at break				
Tensile modulus				
Elongation at yield				
Elongation at break	600	%	ASTM D638	
Flexural strenght				
Flexural modulus	402	MPa	ASTM D790	
Rockwell hardness	50, Shore D			

Thermal properties

Melting temperature	170	°C
Heat deflection temperature		
Vicat softening temperature	103	°C
Glass transition temperature		

Product export information

HS code	Description	Origin
39169090	Monofilament for 3D printing	European Union

Disclaimer

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