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	Typical value	Unit of Measure	Test method	Test condition
Density	0,89	g/cm3		
Specific gravity				
Melt flow rate	8	g/10min	ISO 1183	230°C/2,16kg
Mechanical properties				
Impact strenght	30	kJ/m2	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

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