

## Centaur PP

Centaur PP is a lightweight and high-performance Polypropylene (PP) filament, which is engineered to have outstanding mechanical properties and a superb interlayer adhesion. Centaur PP combines a unique set of material properties into a 3D printer filament, which makes Centaur PP an extremely diverse and multi-functional material suitable for numerous applications ranging from 3D printing dishwasher proof and microwave safe household articles to functional engineering objects with great endurance properties.

### Unique features

- Food contact compliant
- Dishwasher proof and microwave safe
- Lightweight
  - Material density of 0.9 g/cc
- Watertight printing possible with only single wall prints
- Great elastic properties
  - Can stretched up to >600% before breaking
  - Shore hardness of D50
- Improved wear-, abrasion-, and fatigue resistance
- High chemical resistance
- Excellent interlayer adhesion

### General printing guidelines \*

<b>Nozzle size:</b> ≥ 0.4mm	<b>Layer height:</b> ≥ 0.1mm	<b>Flow rate:</b> ± 104%
<b>Print temp:</b> ± 220 - 240° C	<b>Print speed:</b> Medium / High	<b>Retraction:</b> Yes ± 5mm
<b>Heat bed:</b> ± 0 - 100° C *	<b>Fan speed:</b> 50-100%	<b>Experience level:</b> Intermediate

*\*) Above displayed settings are meant as guidance to find your optimal print settings. These ranges in settings should work for most printers, but please do feel free to experiment outside these ranges if you think it is suitable for your printer. There are a lot of different type of printers, hot-ends and printer offsets that it is extremely difficult to give an overall one-size-fits-all setting.*

*\*) Large Centaur PP prints can be printed on an unheated 2mm or 3mm PP plate, which can be attached to the print bed. Smaller prints can be printed on standard PP packaging tape.*

### Filament length

<b>ρ: 0.9 g/cc</b>	<b>50 gr coil</b>	<b>0.5 Kg spool</b>			
<b>Ø 1.75mm</b>	± 23.1m	± 231m			
<b>Ø 2.85mm</b>	± 8.7m	± 87m			

### Product export information

<b>HS Code:</b> 39169090	<b>Description:</b> Monofilament	<b>Country of origin:</b> the Netherlands
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**Compliance \***

This filament is compliant to below listed directives and regulations.

- RoHS directive 2011/65/EC
- REACH directive 1907/2006/EC

*\*) This declaration of conformity to directives and regulations is prepared according to our present standard of knowledge and may be amended if new cognitions are available and applies only for the above described products.*