PP

PP is our easy to print general-purpose low-density Polypropylene. PP has been developed for optical clarity while maintaining mechanical performance and a superb layer adhesion. PP's high stretch ability, decent flexibility and chemical/fatigue resistance makes it suitable for a variety of household articles and containers. PP can also be used for engineering articles such as living-hinges and snap-fit fastener materials. Lastly PP can be used to print dishwasher & microwave safe objects. PP is a cost-effective all-round filament suitable for a broad variety of needs.

Material features:

- High chemical & Fatique resistance
- High elongation before break
- Superb layer adhesion
- Suitable for food contact articles
- Dishwasher & Microwave safe

Colours:

PP is available from stock in 3 colours:

cl1	bk1	wh1

Packaging:

PP is available in nearly any type of packaging and labelling.
Ask our team to help you customizing your product.

Filament specs.		
Size	**Ø tolerance**	**Roundness**
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties		
Description	**Testmethod**	**Typical value**
Specific gravity	ASTM D1505	0,9 g/cc
MFI 230°C/2,16kg	ISO 1133	8 g/10 min
Tensile strength at yield	ASTM D638	12 MPa
Elongation strain at break	ASTM D638	600%
Flexural modulus	ASTM D790	402 MPa
Shore hardness	ASTM D2240	50D
Printing temp.	Internal method	235±10°C
Melting temp.	-	205±15°C
Vicat softening temp.	-	103°C

Additional info:

PP does not adhere to any print sticker well enough to counteract warp on large objects, therefore we recommend a Polypropylene sheet (inexpensive) If you have a heated bed the recommended temperature is ≤85°C Adherence improves when the first layer temperature is higher. Printing with a raft improves bottom layer removability and evens out unconformities in the PP sheet. PP can be used on most common desktop FDM or FFF technology 3D printers.
Storage: Cool and dry (15-25˚C) and away from UV light. This enhances the shelf life significantly.