

FLOW

PRO FILAMENT LINE

PC

PC is a high-performance plastic that possesses a unique balance of toughness, dimensional stability, optical clarity, high heat resistance and excellent electrical resistance. PC is commonly used to make all sorts of products including bullet-proof glass, riot shields, cellphone exteriors and many other products that require an engineering grade material. We recommend PC for more experienced users that are looking to extend their filament options.

Features:

- Great strength & stiffness
- High optical clarity
- Resistant to high temperatures up to 140°C
- Low flammability (UL-94 V2)

Dimensions

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

Physical properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,2 g/cc
MFI 300°C/1,2g	ISO 1133	12 g/10 min
Tensile strength	ISO 527 50mm/min	65 Mpa
Tensile elongation	ISO 527 50mm/min	120%
Tensile modulus	ISO 527 1mm/min	2350 Mpa
Impact strength Charpy method 23°C	ISO 179 23°C	36 KJ/m ²



Colours:

PC is available from stock in 1 clear colour.
For other (translucent) colours a minimum of 40 kg ± 10% is required.

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Thermal properties

Description	Testmethod	Typical value
printing temp.	Df	270-290°C
melting temp.	-	
vicat softening temp.	ISO 306	145°C

Packaging:

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

Additional info:

Recommend temperature for the 'heated bed' is ± 110°C.

PC is printed at a high temperature to make the final product extra strong.

PC can be used on all 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.