



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.

Material features:

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



Colours:

PC is available from stock in 1 clear colour. Other colours on request



Packaging:

PC is available in nearly any type of packaging and labeling. 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	ISO 1183	1,2 g/cc
MFI 300°C/1,2 kg	ISO 1133	22 g/10 min
Tensile strength at yield	ISO 527	63 MPa
Tensile strength at break	ISO 527	70 MPa
Elongation strain at break	ISO 527	120%
Tensile (E) modulus	ISO 527	2340 MPa
Impact strength - Charpy method 23°C Notched	ISO 179 1eA	60 kJ/m2
Printing temp.	Internal method	280±20°C
Vicat softening temp.	ISO 306 B50	141 °C
Heat deflection temp. (A)	ISO 75	128 °C

Additional info:

Recommend temperature for the heated bed is ≥100°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.

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