

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)

Colours:

Check the website for available colours.

Filaments specifications

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

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,2 g/cc
MFR 300°C/1,2 kg	ISO 1133	12 gr/10 min
Tensile strength	ISO 527	65 Mpa
Elongation at break	ISO 527	120%
E-Modulus	ISO 527	2350 MPa
Impact strength - charpy method 23 °C	ISO 179	36 kJ/M ²
Printing temperature	ddd drop	270-290 °C
Vicat softening temperature	ISO 306	145°C

Additional info:

Recommend temperature for the 'heated bed' is ± 130 °C.

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

Storage: Cool and dry (15-25 °C) and away from UV light. This enhances the shelf life significantly.