

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.