



PC – POLICARBONATO TECHNICAL DATASHEET

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PC – Policarbonato

Technical Datasheet ¹

ICE FILAMENTS PC-PRO PRODUCT CARD

ICE Filaments PC-Pro is a high-performance plastic that possesses a unique balance of toughness, dimensional stability, optical clarity, high heat resistance and excellent electrical resistance. ICE Filaments PC-Pro 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 ICE Filaments PC-Pro 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:

ICE Filaments PC-Pro is available from stock in a variety of colors. Other colors on request.

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FILAMENT SPECS		
Size	Ø tolerance	Roundness
1.75mm	± 0,05mm	≥ 95%
2.85mm	± 0,10mm	≥ 95%

MATERIAL PROPERTIES		
Description	Test method	Typical value
Specific Gravity	ISO 1183	1,2 g/cc
MFR 300°C / 1,2 kg	ISO 1183	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	ICE FILAMENTS	270 – 290°C
Vicat softening temperature	ISO 306	145°C

ADDITIONAL INFO:

Recommended temperature for heated bed is ±110°C.

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

PC-Pro 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 shelf life significantly.

¹ All the presented data comes from the manufacturer
 PC – Policarbonato Technical datasheet