

ICE FILAMENTS PC-ABS PRODUCT CARD

ICE Filaments PC-ABS is an incredibly strong filament with an even higher impact resistance than our regular ABS. This is a consequence of the addition of the proper amount of polycarbonate in this modification, which also creates a nearly perfect interlayer adhesion and beautiful surface gloss. The above features, combined with a highly stable printing process makes ICE Filaments PC-ABS the perfect material for mechanical parts and tools, which should be light and strong and show minimal wear after prolonged use.

FEATURES:

- ∞ Improved interlayer adhesion
- ∞ High impact resistance
- ∞ High surface gloss
- ∞ Stable printing process



COLOURS:

ICE Filaments PC-ABS 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	Testmethod	Typical value
Specific Gravity	ASTM D792	1,05 g/cc
MFR 220°C / 10kg	ASTM D1238	7 gr/10 min
Tensile strength	ASTM D638	46 Mpa
Strain at break	ASTM D638	13%
E-Modulus	ASTM D638	2100 Mpa
Impact Strength – Izod method 23°C	ISO 180/A	40 kJ/m ²
Printing temperature	ICE FILAMENTS	245 – 275°C
Melting temperature	-	250°C ± 10°C
Heat deflection temperature	ISO 306	108°C

ADDITIONAL INFO:

Recommended temperature for heated bed is +100°C. We recommend kapton and/or PVA glue stick for adhesion.

PC-ABS 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.