

## ICE FILAMENTS ICE-Flex PRODUCT CARD

ICE Filaments ICE-Flex is a very flexible rubber replacing filament for 3D printing. The combination of flexibility, mechanical strength, durability and good resistance to chemicals and extreme temperatures makes it a unique filament. This BIO performance thermoplastic Co-Polyester has a high carbon content of renewable materials resulting in less environmental impact. Finally, ICE-Flex exhibits excellent UV resistance.

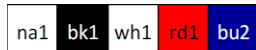
### FEATURES:

- ∞ Very flexible
- ∞ Strong
- ∞ Long term heat resistant
- ∞ Good chemical resistance
- ∞ UV Resistant



### COLOURS:

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



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	1,14 g/cc
MFR 260°C/5 kg	ISO 1133	39 cm <sup>3</sup> /10 min
Tensile strength at break	ISO 527	24 Mpa
Strain at break	ISO 527	530 %
Tensile Modulus	ISO 527	95 Mpa
Impact Strength – Charpy notched 23°C	ISO 179	N.B.
Printing temperature	ICE FILAMENTS	220 – 260°C
Melting temperature	ISO 11357	180°C
Vicat softening temperature	ISO 306	38°C

### ADDITIONAL INFO:

Recommended temperature for heated bed is ± 100°C. Various other options (also without heated bed) are possible depending on the type and size of the object to be printed.

ICE Filaments ICE-Flex can be printed better at a lower speed, due to its flexibility.

ICE Filaments ICE-Flex 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.