

ICE FILAMENTS ICE-Flexiglass PRODUCT CARD

ICE Filaments ICE-Flexiglass is a crystal clear, strong, flexible and easy to print filament for 3D printing. These characteristics, together with the high degree of gloss, very low water absorption, practically no shrinkage or warping, very good interlayer adhesion and flame retardant properties make it a very special filament. The material is FCA (Food Contact Acceptable) approved. In short, a very diverse filament which can be used for many applications.

FEATURES:

- ∞ 92% light transmission
- ∞ Strong and flexible
- ∞ Very good interlayer adhesion
- ∞ No crazing when bent
- ∞ Food Contact Acceptable
- ∞ Almost no “warping”



COLOURS:

ICE Filaments ICE-Flexiglass 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	ISO 1183	1,01 g/cc
MFR 200°C/5 kg	ISO 1133	7,5 gr/10 min
Tensile strength at break	ISO 527	26 Mpa
Strain at break	ISO 527	230 %
Flexural Modulus	ISO 178	1795 Mpa
Instr. Dart Impact (23°C, 3,18mm TE)	ASTM 3763	40,0J
Shore D Hardness	ISO 868	63
Light Transmission	ASTM D1003	92%
Printing temperature	ICE FILAMENTS	225 – 245°C
Melting temperature	ISO 11357	177 – 232°C
Vicat softening temperature	ASTM D1525	85°C

ADDITIONAL INFO:

Recommended temperature for heated bed is ± 70 – 90°C. Adhesion is possible on different surfaces. ICE Filaments ICE-Flexiglass 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.