

## ICE FILAMENTS ASA-X PRODUCT CARD

ICE Filaments ASA-X is our highly modified “industrial-grade” ASA filament with many features like UV resistance, zero warp technology and excellent mechanical properties. ASA-X is the perfect replacement when you require a performance material without the problems that can arise during printing with, for example, ABS. ASA-X not only has great strength and interlayer adhesion but also features one of the best aesthetics possible with FDM 3D printing. The reliable bed adhesion will ensure a smooth printing experience. ASA-X is perfect when you are looking for beautiful and strong prints that also last outside.

### FEATURES:

- ∞ UV / weather resistant
- ∞ Zero warp technology
- ∞ Excellent interlayer adhesion
- ∞ Great strength and aesthetics
- ∞ Reliable bed adhesion



### COLOURS:

ICE Filaments ASA-X 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	1,11 g/cc
MFR 260°C/5kg	ISO 1133	45 gr / 10 min
Tensile strength at yield	ISO 527	47,5 Mpa
Strain at break	ISO 527	15%
Tensile Modulus	ISO 527	2020 Mpa
Impact Strength – Charpy notched 23°C	ISO 179	18 kJ/m <sup>2</sup>
Printing temperature	ICE FILAMENTS	235 – 255°C
Melting temperature	ISO 294	230°C ± 10°C
Vicat softening temperature	ISO 306	98°C

### ADDITIONAL INFO:

Recommended temperature for heated bed is ± 80 – 90°C.

ICE Filaments ASA-X is printed at high temperatures to make the final product extra strong.

ICE Filaments ASA-X can be used on all common desktop FDM or FFF technology 3D printers.

Storage: cool and dry (15 – 25°C). This enhances the shelf life significantly.