

# ASA-X

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.

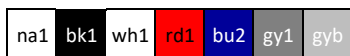
## Material features:

- UV / Weather resistant
- Zero warp technology
- Excellent interlayer adhesion
- Great strength & aesthetics
- Reliable bed adhesion (Glass, tape & other adhesives)



## Colours:

ASA-X is available from stock in 7 industrial colours. Other colours on request



## Packaging:

ASA-X is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

## 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 220°C/10 kg	ISO 1133	13,7 gr/10 min
Tensile strength at yield	ISO 527	46,4 Mpa
Tensile strength at break	ISO 527	29,8 MPa
Elongation strain at break	ISO 527	16,2%
Elongation strain at yield	ISO 527	3,6%
Tensile (E) modulus	ISO 527	2090 MPa
Impact strength - Charpy notched 23°C	ISO 179	15,6 kJ/m2
Printing temp.	Internal method	240±10°C
Melting temp.	ISO 294	230±10°C
Vicat softening temperature	ISO 306	98°C

## Additional info:

Recommended temperature for heated bed is ± 80-90°C. ASA-X is printed at high temperatures to make the final product extra strong. 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.

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