

## ASA-X @df

ASA-X @df 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 & aesthetics
- Reliable bed adhesion (Glass, tape & other adhesives)



### Dimensions

| Size   | Ø tolerance | Roundness |
|--------|-------------|-----------|
| 1,75mm | ± 0,05mm    | ≥ 95%     |
| 2,85mm | ± 0,10mm    | ≥ 95%     |

### Physical properties

| Description                        | Testmethod       | Typical value |
|------------------------------------|------------------|---------------|
| Specific gravity                   | ISO 1183         | 1,11 g/cc     |
| MFR 260°C (5kg)                    | ISO 1133         | 45 gr/10min   |
| Yield stress                       | ISO 527 50mm/min | 47,5 Mpa      |
| Strain at break                    | ISO 527 50mm/min | 15%           |
| Tensile (E) modulus                | ISO 527 1mm/min  | 2020MPa       |
| Impact strength Charpy method 23°C | ISO 179          | 18 KJ/m2      |

### Colours:

ASA-X @df is available from stock in 7 industrial colours. For non stock colours a minimum of 40kg ± 10% is required.



### Thermal properties

| Description           | Testmethod | Typical value   |
|-----------------------|------------|-----------------|
| printing temp.        | DF         | 235-255°C       |
| melting temp.         | ISO 294    | 230 °C +/- 10°C |
| vicat softening temp. | ISO 306    | 98°C            |

### Packaging:

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

### Additional info:

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

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

ASA-X @df 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.