

ABS-X @df

ABS-X @df is our take on a next-generation ABS filament. By applying our zero warp technology to the filament we have created a filament with far less cracking, proven near perfect interlayers, reliable bed adhesion (glass, tape & other adhesives) while improving the mechanical properties making ABS-X @df extra strong. These properties make ABS-X @df the ultimate ABS replacement that prints strong and beautiful parts on any FDM 3D printer without the common headaches associated with regular ABS like warping & horrible bed adhesion. ABS-X @df is the perfect material for strong objects that require an high impact tolerance.

Features:

- Zero warp technology
- Excellent interlayer adhesion
- Reliable bed adhesion (Glass, tape & other adhesives)
- Enhanced mechanical properties over regular ABS
- Great strength & aesthetics



Colours:

ABS-X @df is available from stock in 12 colours. For non stock colours a minimum of 40kg \pm 10% is required.



Packaging:

ABS-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 \pm 80°C.

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

ABS-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.

Dimensions

| Size | Ø tolerance | Roundness |
|--------|--------------|------------|
| 1,75mm | \pm 0,05mm | \geq 95% |
| 2,85mm | \pm 0,10mm | \geq 95% |

Physical properties

| Description | Testmethod | Typical value |
|------------------------------------|------------------|---------------|
| Specific gravity | ISO 1183 | 1,1 g/cc |
| MFR 260°C (5kg) | ISO 1133 | 41 gr/10min |
| Yield stress | ISO 527 50mm/min | 43,6 Mpa |
| Strain at break | ISO 527 50mm/min | 34% |
| Tensile (E) modulus | ISO 527 1mm/min | 2030MPa |
| Impact strength Charpy method 23°C | ISO 179 | 58 KJ/m2 |

Thermal properties

| Description | Testmethod | Typical value |
|-----------------------|------------|-----------------|
| printing temp. | DF | 240-260°C |
| melting temp. | ISO 294 | 235 °C +/- 10°C |
| vicat softening temp. | ISO 306 | 97°C |