

# 3Dee ASA

## Technical Data Sheet

ASA is our highly modified “industrial-grade” ASA filament with many features like UV resistance, zero warping technology and excellent mechanical properties. It is a perfect replacement when you require a performance material without the problems that can arise during printing with, for example, ABS. ASA 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 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)

### Material properties

Description	Test method	Typical value
Specific gravity	ISO1183	1,11 g / cc
MFR 210°C / 2,16kg	ISO1133	26,6 gr / 10min
Tensile Strength at Yield (MPa)	ISO527	47,5 MPa
Strain at break	ISO527	15%
Tensile-Modulus	ISO527	2020 Mpa
Impact strength - Charpy 23°C	ISO179	18 kJ / m2
Moisture absorption	ISO62	1968 ppm
Printing temp.	DF	245 ± 10 °C
Melting temp.	ISO11357	230 ± 10 °C
Vicat softening temp.	ISO306	98 °C
RoHS compliance		yes
REACH compliance		yes

*The numbers presented are typical values intended for reference and comparison purposes only. The performance characteristics of 3D printed parts may vary according to build conditions, print settings or applications.*

### Additional information:

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

ASA is printed at high temperatures to make the final product extra strong.

ASA can be used nearly on all common desktop FDM/FFF/FLM technology 3D printers.

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