

ASA

ASA filament is a technological upgrade to ABS filaments, as it maintains good mechanical properties while also being UV resistant.

Why 3DTrcek ASA filament?

- Durable: Impact and heat resistance
- Easy post-processing: Smoothing with acetone vapors
- Suitable for outdoor use: UV resistant
- High precision: Consistent diameter of 1.75mm +/- 0.03mm

Storage:

Store 3DTrček ASA filament in a dry, dark place in an airtight bag with a desiccant at temperatures between 0°C and 40°C. ASA absorbs moisture but is not as sensitive to it during printing as PET-G. After extended storage we recommend drying it in a filament dryer at 60°C for 4-8 hours before use.

Compatibility:

ASA filament can be printed at high temperatures, so it is recommended to use a full-metal hot end and due to warping, an enclosed chamber is advisable. An alternative solution is our ASA Plus filament, which possesses better printing characteristics. With over 10 years of experience in developing 3D filaments, 3DTrček produces only the best ASA filaments, ensuring excellent results on all popular FDM printers such as Bambu Lab, Creality, Prusa, Anycubic, Elegoo, etc.

MATERIAL PROPERTIES

Density	ASTM D792	1,07 g/cm ³
Melt flow index	ASTM D1238 (220°C/10,0 kg)	6 g/10min
Melting temperature		200°C - 230°C

MECHANICAL PROPERTIES

Tensile strength	ASTM D638	40 MPa*
Tensile modulus	ASTM D638	1725 MPa*
Elongation at yield	ASTM D638	>5%
Elongation at break	ASTM D638	35%
Izod impact, notched 23°C	ASTM D256	440 J/m**
Vicat softening temperature	ASTM D1525	94°C

*values measured in kg/cm²

**values measure in kg*cm/cm

PRINTER RECOMMENDATION

	Recommended	Not recommended
nozzle	Any size / all-metal	Plastic lined
Build plate	Engineering plate, high temperature plate, textured PEI plate	Cool plate
Heated chamber	Recommended, not required	
Extruder	Any type	
Air filtration system	Highly recommended	

Disclaimer: The values in the technical data sheet are intended to be used as a reference and for comparison purposes only. They should not be used for design specification or quality control purposes. These values greatly depend on printing conditions, environmental conditions, part orientation and part design.

3DTrcek d.o.o. is not responsible for any damages or injury caused by use of our filaments.