

## ASA Extrafill

### Description:

Thanks to mechanical properties is ASA filament ideal for the production of the first samples before serial production for functional prototyping, manufacturing tools, but also for the production of goods for everyday usage including outdoor applications.

The advantage of this material is its excellent weather resistance, high retention of physical features and low level of yellowing.

ASA has a higher rigidity than ABS and thus it is suitable for demanding applications. Another advantage is its good dimensional stability.

This material can be used for production of electrical and electronic equipment. It doesn't contain the restricted substances. The use of the material in the food or medical industry is not recommended.

Fillamentum guarantees precision of filament dimensions within the tolerance of +/- 0,05 mm, which is strictly controlled throughout the production.



Physical properties	Typical Value	Test Method	Test Condition
Material density	1,07 g/cm <sup>3</sup>	ASTM D792	
Melt flow index	5 g/10 min		220 °C, 10 kg
Diameter tolerance	± 0,05 mm		
Weight	750 g of filament (+ 250 g spool)		

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength	40 MPa	ASTM D638	50 mm/min
Elongation at break	35 %	ASTM D638	50 mm/min
Tensile modulus	1726 MPa	ASTM D638	1 mm/min
Flexural strength	62 MPa	ASTM D790	at yield, 15 mm/min
Flexural modulus	1814 MPa	ASTM D790	15 mm/min
Izod impact strength	441 J/m	ASTM D256	23 °C, 1/8"
Rockwell hardness	92	ASTM D785	R-Scale

Thermal properties	Typical Value	Test Method	Test Condition
Heat distortion temperature	86 °C	ASTM D648	1,8 MPa
	96 °C	ASTM D648	0,45 MPa
Vicat softening temperature	94 °C	ASTM D1525	50 °C/h, 5 kg

Printing properties	Recommended	Notes
Print temperature	240-255 °C	Recommended settings! It may differ according to the printer and the object.
Hot pad	90-105 °C	Try your own settings before printing.
Bed adhesive	3Dlac, glue stick	

Workability of 3D printing filament is at least 12 months from delivery.

The information was processed with the best knowledge of the manufacturer and it is for information only.