

Technical datasheet

colorFabb ASA

Date of issue: October 29, 2020
Version: v1.0



ColorFabb ASA is a high quality ASA 3D printing filament that has very good melt-flow capabilities. The two most important features of ASA are its inherent UV stability and high temperature resistance of 96C. This material is well suited to be used for long lasting outdoor applications.

TYPICAL MATERIAL PROPERTIES

Physical properties	Unit	Value	Method
Density	g/cm ³	1,07	D 792
Tensile Strength (Yield)	MPa	49	D 638
Elongation @ Yield	%	> 6	D 638
Elongation @ Break	%	20	D 638
Tensile Modulus	MPa	2170	D 638
Flexural Modulus	MPa	2300	D 790
Flexural Strength	MPa	78.5	D 790
Rockwell Hardness, R Scale	-	107	D 785
Izod Impact strength, notched @ -30 °C	J/m	29	D 256
Izod Impact strength, notched @ 23 °C	J/m	140	D 256
Deflection Temperature @ 0.45 MPa	°C	96	D 648
Deflection Temperature @ 1.8 MPa	°C	87	D 648
Vicat Softening Temperature	°C	96	D 1525

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,10	≥ 95%
2,85 mm	± 0,10	≥ 95%

Netto filament weight 650 grams

GUIDELINE FOR PRINT SETTINGS

Advised 3D printing temperature	240 – 260 °C
Advised bed temperature	90 – 100 °C
Bed surface / modification	-
Active cooling fan	To reduce warping we would advice to use the least amount of cooling possible. Also for best mechanical performance try printing with the least amount of cooling needed, for optimal layer adhesion.
Advised 3D printing speed	40 – 100 mm/sec

Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.