

ASA- Spec Sheet

(to be used on FDM® rapid prototyping machines)

ASA is a general purpose filament available in black and white. It has balanced, ABS-like properties and is suitable for a wide variety of applications. Unlike ABS it has a high UV-stability and is a good choice for outdoor applications.

Mechanical Properties	Value	Test Method
Tensile Modulus	2,022 MPa	ASTM D638
Tensile Stress, Type I, 5mm/min	33,5 MPa	ASTM D638
Tensile Strain, Type I, 5mm/min	No Break	ASTM D790
Flexural Modulus 1.3mm/min	1,921 MPa	ASTM D290
Izod impact, notched, 23 °C	68 J/m	ASTM D256
Izod impact, unnotched, 23 °C	353 J/m	ASTM D256

Electrical Properties	Value	Test Method
Volume Resistivity	$1 \cdot 10^{-14}$ - $1 \cdot 10^{-15}$ Ohm	ASTM D257

Thermal Properties	Value	Test Method
HDT, 1.82 MPa, 3.2mm	98 °C	ASTM D648
Coefficient of thermal expansion – flow	87.0 $\mu\text{m}/(\text{m} \cdot ^\circ\text{C})$	ASTM E831

The given values are typical values only, which are not intended for design or specification purposes. Test parts were printed on a Stratasys® Fortus 250 mc printer under standard parameters. All parts were printed in flat XY-orientation.

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