

# ASA

## Acrylonitrile styrene acrylate

The Go-To UV-Resistant, All-Weather Material for Long-Lasting 3D Printed Parts. Ideal for Outdoor Applications with Superior Mechanical Properties and High Impact Resistance.



### Material properties

Density	ASTM D792	1,05	g/cm <sup>3</sup>
Suitability for food contact		NO	
Tensile strength	ASTM D638	49	MPa
Elongation at break	ASTM D638	20	%
Elastic modulus	ASTM D638	2200	MPa
Flexural strength	ASTM D638	78	MPa
Resilience	ISO 179	44	kJ/m <sup>2</sup>
HDT 0.45 MPa	ASTM D648	96	°C
Vicat softening temperature	ASTM D1525	96	°C
Melting temperature	ISO 3146-C	180-200	°C
Flammability	UL94	HB	

#### Printing layer height

0,15 mm (0,006 in)

#### Maximum dimensions

250x250x250 mm (9.8x9.8x9.8 in)

#### Infill

30%

#### Shell thickness

1,8 mm (0,07 in)

#### Tolerances

± 0,60mm < 100mm / ± 0,75% > 100mm

#### Applications

Ideal choice for outdoor applications requiring long-term stability and UV resistance.

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