

ASA

INDUSTRIAL GRADE MATERIALS FOR FDM 3D PRINTING



MATERIAL NAME

ASA

COLOR

Black & White

PROCESS

FDM

PRODUCT DESCRIPTION

Bambu ASA is a highly durable material that offers exceptional UV, weather, mechanical, and thermal resistance. Its unique combination of properties makes it an ideal material for printing outdoor models (plant signs, mailboxes, wind vanes, etc.) and structural parts that require long-term exposure to challenging outdoor conditions.

TYPICAL APPLICATIONS

- Automotive rearview mirror
- Solar panel bracket

PRODUCT SAFETY

Engineering plastics are fine to touch under normal circumstances, but a very small number of people may have allergic reactions to the additives in them. When melted at high temperatures, irritating gases may be released.

PRODUCT DELIVERY & WAREHOUSING

- **SOLUBLE IN**

Acetone, esters, ketones and other organic solvents. Acetone is often used to smooth the surface of ABS prints.

- **RESISTANCE**

Has a certain resistance to acid, alkali and salt solutions.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Hardness	/	/
Flexural modulus (Mpa)	ISO 178, GB/T 9341	XY: 1920 ± 130 MPa Z: 1650 ± 120 MPa
Flexural strength (Mpa)	ISO 178, GB/T 9341	XY: 65 ± 5 MPa Z: 40 ± 3 MPa
Tensile modulus (Mpa)	ISO 527, GB/T 1040	XY: 2450 ± 270 MPa Z: 2120 ± 260 MPa
Tensile strength (Mpa)	ISO 527, GB/T 1040	XY: 37 ± 3 MPa Z: 31 ± 4 MPa
Elongation at break	ISO 527, GB/T 1040	XY: 9.2 ± 1.4% Z: 4.6 ± 0.8%
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	ISO 179, GB/T 1043	XY: 41.0 ± 2.3 KJ/m ² ; 19.6 ± 1.8 KJ/m ² (notched) Z: 4.9 ± 0.6 KJ/m ²
Heat deflection temperature (°C)	ISO 75	HDT @0.45 MPa: 100°C HDT @1.8 MPa: 92°C
Glass transition, T _g (°C)	DSC, 10°C/min	N/A
Coefficient of thermal expansion (/°C)	/	/
Density (g/cm ³)	ISO 1183	1.05 g/cm ³

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>



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