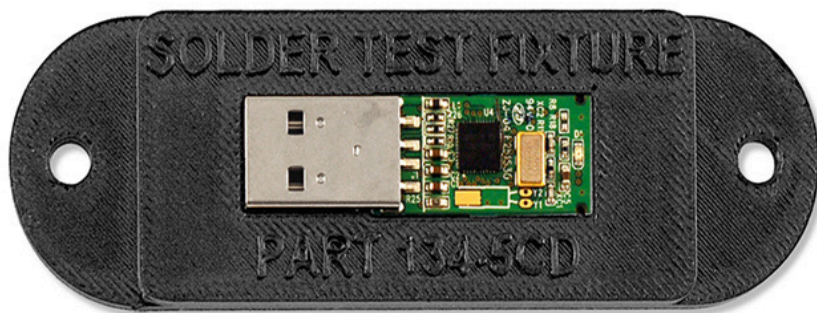


ABS

INDUSTRIAL GRADE MATERIALS FOR FDM 3D PRINTING



MATERIAL NAME

ABS

COLOR

Black & White

PROCESS

FDM

PRODUCT DESCRIPTION

ABS is renowned for its durability, strength, and thermal resistance, making it ideal for parts that need to withstand stress or impact, such as pipes or housings for electrical components. When printing ABS, an enclosed environment is recommended to prevent warping and ensure stable print quality. Bambu Lab ABS is a versatile filament that offers excellent strength, enabling you to create long-lasting, durable parts. It provides a significant upgrade in strength and durability compared to PLA and PETG, especially when printed in an enclosed printer.

TYPICAL APPLICATIONS

- Sweeping robot shell
- Wind turbine blades

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: 1880 ± 110 MPa Z: 1590 ± 1 MPa
Flexural strength (Mpa)	ISO 178, GB/T 9341	XY: 62 ± 4 MPa Z: 39 ± 4 MPa
Tensile modulus (Mpa)	ISO 527, GB/T 1040	XY: 2200 ± 190 MPa Z: 1960 ± 110 MPa
Tensile strength (Mpa)	ISO 527, GB/T 1040	XY: 33 ± 3 MPa Z: 28 ± 2 MPa
Elongation at break	ISO 527, GB/T 1040	XY: 10.5 ± 1% Z: 4.7 ± 0.8%
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	ISO 179, GB/T 1043	XY: 39.3 ± 3.6 KJ/m ² ; 21.5 ± 2.2 KJ/m ² (notched) Z: 7.4 ± 1.2 KJ/m ²
Heat deflection temperature (°C)	ISO 75	HDT @0.45 MPa : 87°C HDT @1.8 MPa: 84°C
Glass transition,Tg (°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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