

Product datasheet

ENGLISH

ABS

ABS is an extra strong impact-resistant filament ideal for 3D printing of solid printed products.

Due to the process stability and physical features of Acrylonitrile Butadiene Styrene it is a widely used thermoplastic polymer in industry. The material is also very light and durable. This makes ABS particularly suitable for tools, toys and all kinds of utensils. Printed at a slightly over-average temperature for ABS, this filament gives extra strong 3D print results



Dimensions

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D792	1,03 g/cc
MFR 220°C/10kg	ASTM D1238	8,0 g/10 min
Tensile strength	ISO 527	44 Mpa
Strain at break	ISO 527	9%
Tensile modulus	ASTM D638	2000 Mpa
Impact strength Izod method 23°C	ISO 180/A	36 KJ/m²

Thermal properties

Description	Testmethod	Typical value
printing temp.	_	220-270°C
melting temp.	ISO 294	245°C ± 10°C
vicat softening temp.	ISO 306	± 103°C

Features:

- · Very high impact-resistance
- Extra strong
- · Stable printing
- · Light and durable
- · Limited warping

Colours:

ABS is available from stock in a large selection of bright colours .

Additional info:

Recommended temperature for heated bed is \pm 90-110°C.

ABS is printed at a slightly higher temperature to make the final product extra strong.

ABS can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.