

ABS

TECHNICAL DATA SHEET

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.

Features:

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

Colours:

Check the website for available colours.

Filaments specifications		
Size	Ø Tolerance	Roundness
1.75mm	± 0.05mm	≥ 95%

Material properties		
Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,03 g/cc
MFR 220 °C / 10 kg	ISO 1133	5,7 g/10 min
Tensile strength at yield	ISO 527	38 Mpa
Elongation at break	ISO 527 1/2	9%
Tensile modulus (E-Modules)	ISO 527	1900 Mpa
Impact strength - charpy method 23 °C	ISO 179	35 kJ/m2
Printing temperature	ddd drop	260-290 °C
Melting temperature	ISO 294	245 °C ± 10 °C
Vicat softening temperature	ASTM D 1525	103 °C

Additional info:

Recommended temperature for heated bed is ± 120 °C.

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

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