

PRIMAVALUE

3D-PRINT FILAMENT

PrimaValue ABS

PrimaValue 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:

Red, Blue, Black & White.

*ABS 2.85 only available in Black & White

Packaging:

Shrunk rapped outer box and shrunk rapped spool with silica gel.

Additional info:

Recommended temperature for heated bed is $\pm 90-110^{\circ}\text{C}$. 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 ($15-25^{\circ}\text{C}$) and away from UV light. This enhances the shelf life significantly



Dimensions

Size	\varnothing tolerance	Roundness
1,75 mm	$\pm 0,05$ mm	$\geq 95\%$
2,85 mm	$\pm 0,10$ mm	$\geq 95\%$

Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D792	1,03 g/cc
MFR $220^{\circ}\text{C}/10\text{kg}$	ASTM D1238	8,0 g/10 min
Tensilestrength	ISO 527	44 Mpa
Tensilemodulus	ASTM D638	2000 Mpa
Impact strength Izod method 23°C	ISO 180/A	36 KJ/m ²

Thermal properties

Description	Testmethod	Typical value
Printing temp.	-	$220-270^{\circ}\text{C}$
Melting temp.	ISO 294	$245^{\circ}\text{C} \pm 10^{\circ}\text{C}$
Vicat softening temp	ISO 294	$\pm 103^{\circ}\text{C}$



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