

ABS @df

ABS @df 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 @df 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



Dimensions

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

Physical properties

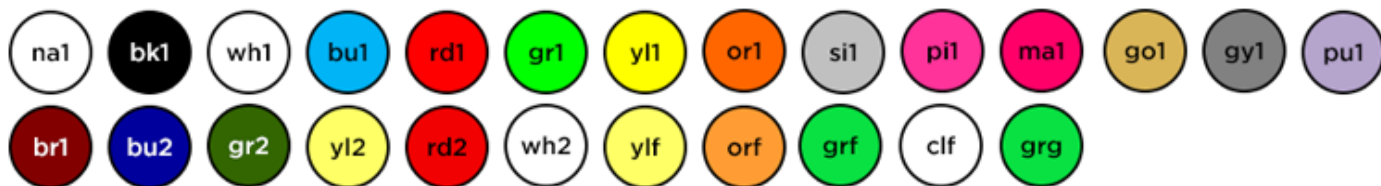
| Description | Testmethod | Typical value |
|-------------------------------------|------------|---------------|
| Specific gravity | ASTM D792 | 1,03 g/cc |
| MFR 220°C/10kg | ASTM D1238 | 8,0 g/10 min |
| Tensile strength | ISO 527 | 44 Mpa |
| Strain at break | ISO 527 | 9% |
| Tensile modulus |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

Colours:

ABS @df is available from stock in 25 bright colours.
For non stock colours a minimum of 40kg ± 10% is required.

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 |



Packaging:

ABS @df is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

Additional info:

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

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

ABS @df 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.