



# Technical Document

## RS PRO - ABS

Stock numbers:

832-0453 / 832-0399 / 832-0396 / 832-0393 / 832-0387 / 832-0383 / 832-0380 / 832-0377 / 832-0374 / 832-0371 / 832-0368 / 832-0365 / 832-0361 / 832-0359 / 832-0355 / 832-0352 / 832-0349 / 832-0346 / 832-0343 / 832-0337 / 832-0333 / 832-0330 / 832-0327 / 832-0324 / 832-0321 / 832-0315 / 832-0311 / 190-1951 / 190-1950 / 190-1949 / 190-1948

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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 widely used thermoplastic polymer in industry. The material also very light and durable. This makes ABS particularly suitable for tools, toys and all kinds of utensils. Printed at a slightly over-temperature for ABS, this filament gives extra strong 3D print results.

Features:

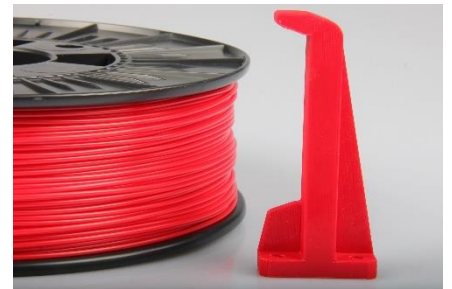
- High impact-resistance
- Extra Strong
- Stable printing
- Limited warping

Colours:

RS PRO - ABS is available from stock in 13 colours.

Packaging:

RS PRO - ABS is available in 300 grams, 1 kg and 2,3 kg packaging.



### Filament specs.

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

### Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,03 g/cc
MFR 260 °C/5 kg	ISO 1133	5.7 gr/10 min
Tensile strength at yield	ISO 527	38 Mpa
Elongation at break	ISO 527	9%
Tensile modulus	ISO 527	1900 Mpa
Impact strength - Charpy notched 23 °C	ISO 179	35 kJ/m <sup>2</sup>
Printing temp.	Print lab	245±10 °C
Melting temp.	ISO 294	245±10 °C
Vicat softening temperature	ISO 306	103 °C

Additional information:

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

ABS is printed at high temperatures 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). This enhances the shelf life significantly.

[rspro.com](http://rspro.com)