



# Technical Document

## RS PRO - PC-ABS

Stock numbers:

174-0058 / 174-0059 / 174-0060 / 174-0061

EN

PC-ABS is an incredibly strong filament with an even higher impact resistance than our regular ABS. This is a consequence of the addition of the proper amount of polycarbonate in this modification, which also creates a nearly perfect interlayer adhesion and a beautiful surface gloss. The above features, combined with a highly stable printing process makes PC-ABS the perfect material for mechanical parts and tools, which should be light and strong and show minimal wear after prolonged use.

### Features:

- Improved interlayer adhesion
- High impact resistance
- High surface gloss
- Stable printing process

### Colours:

RS PRO - PC-ABS is available from stock in black & white

### Packaging:

RS PRO - PC-ABS is available in 500 grams 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	ASTM D792	1,05 g/cc
MFR 240 °C/5 kg	ISO 1183	0,47 gr/10min
Tensile strength	ISO 527	37,2 Mpa
Strain at break	ISO 527	14%
E- modulus	ISO 527	1820 Mpa
Impact Strength - Charpy method 23 °C	ISO 179	25,5 kJ/m2
Printing temp.	Print lab	270±10 °C
Melting temp	ISO 294	250±10 °C
Heat deflection temp.	ISO 306	108 °C

### Additional information:

Recommended temperature for heated bed is +100 °C. We recommend kapton and / or pva glue stick for adhesion. PC-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.

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