

# Technical Document

## RS PRO - PET-G

Stock numbers:

891-9337 / 891-9334 / 891-9328 / 891-9325 / 891-9321 / 891-9319 / 891-9315 / 891-9312 / 891-9309 / 891-9306 / 891-9303 / 891-9299 / 891-9296 / 891-9292 / 891-9286 / 891-9280 / 190-1962 / 190-1961 / 190-1960 / 190-1959 / 190-1958 / 190-1957 / 190-1956 / 190-1955 / 190-1954

EN

PET-G is a strong, high clarity, odor neutral and easy to print filament for 3D printing. These characteristics, together with the high impact strength, excellent flexibility and practically no shrinkage make PET-G an excellent material which combines the advantages of both PLA and ABS. The filament is hydrophobic and therefore does not absorb water. In short, PET-G has many great features and is the perfect addition to any filament assortment

### Features:

- High clarity
- Strong & Flexible
- Almost no “warping”
- Hydrophobic (Does not absorb water)
- Odor neutral printing



### Colours:

RS PRO - PET-G is available from stock in 8 colours.

### Packaging:

RS PRO - PET-G is available in 500 grams and 1 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	1,27 g/cc
MFR 190 °C/2, 16 kg	ISO 1133	6.4 gr/10 min
Tensile strength at yield	ISO 527	50 Mpa
Strain at yield	ISO 527	6%
Strain at break	ISO 527	23%
Tensile modulus	ISO 527	2020 Mpa
Flexural modulus	ISO 178	2050 Mpa
Impact strength - Charpy notched 23 °C	ISO 179	8,1 kJ/m <sup>2</sup>
Rockwell Harness	ASTM D750	105
Moisture Absorption	ASTM D570	0.13%
Printing temp.	Print lab	240±10 °C
Heat distortion temp	ASTM 648	70 °C
Light Transmittance	ASTM D1003	90%

### Additional information:

Recommended temperature for heated bed is ± 60-80 °C. 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.

- Bed adhesion: PEI sheet or Hairspray
- Print speed: Medium
- Fan speed: Medium/ high