

PET-G

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.

Material features:

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

Filament specs.

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 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
Flexural strength	ISO 178	69 MPa
Impact strength - Charpy method 23°C	ISO 179	8,1 kJ/m2
Rockwell Hardness	ASTM D785	105
Moisture absorption	ISO 62	1104 ppm
Printing temp.	DF	240±10°C
Heat Deflection Temp	ASTM 648	70°C
Transparency	ASTM D1003	90%

Additional info:

Recommended temperature for heated bed is ± 60-80°C. Adhesion is possible on different surfaces.

PET-G 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.