

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 that combines the advantages of both PLA and ABS. 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”
- Odor neutral printing

Filament Specs.		
Size	ØTolerance	Roundness
1.75mm	± 0.05mm	≥95%
2.85mm	± 0.10mm	≥95%

Material Properties		
Description	Test Method	Typical value
Specific Gravity	ISO 1183	1.27 g/cc
MFI 190°C/2.16 kg	ISO 1133	6.4 g/10 min
Tensile Strength at Yield	ISO 527	50 MPa
Elongation Strain at Break	ISO 527	23%
Elongation Strain at Yield	ISO 527	6%
Tensile (E) 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 1eA	8.1 kJ/m ²
Rockwell Hardness	ASTM D785	105
Moisture Absorption	ISO 62	1104 ppm
Printing Temp.	Internal method	240±10°C
Heat Deflection Temp.	ASTM 648	70°C
Transparency	ASTM D1003	90%

Additional Information: Low hygroscopic, printable without drying, but drying improves printing performance. Recommended temperature for heated bed is ≥70°C. Adhesion is possible on different surfaces. PET-G can be used on all common desktop FDM or FFF technology 3D printers. *This material will perform better if dried first at the recommended temperatures.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

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