PET-G Filament

- Polyethylene Terephthalate Glycol (PET-G)
- High impact strength
- Excellent flexibility
- Almost no warping or shrinkage
- Hydrophobic (does not absorb water)
- Food packaging grade pellets used
- Odour neutral
- Main applications: Concept modelling for mechanics, medical, food containers, transparent objects.



Filament Specifications

Size	Ø tolerance	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
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 temperature	DF	240±10°C
Heat deflection temperature	ASTM 648	70°C
Transparency	ASTM D1003	90%

Recommended temperature for heated bed is 90°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.

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Recommended printer set up

Extrusion temperature	235±10°C
Bed temperature	90°C

Filaments Available

Colour	Part Number		RAL ref.*	Diameter	Weight
White	55050		9003	1.75 mm	1 kg
Black	55052		9017	1.75mm	1 kg
Red	55053		3020	1.75mm	1 kg
Red Transparent	55054			1.75mm	1 kg
Blue	55055		5002	1.75mm	1 kg
Blue Transparent	55056			1.75mm	1 kg
Green Transparent	55057			1.75mm	1 kg
White	55058		9003	2.85mm	1 kg
Black	55060		9017	2.85mm	1 kg
Red	55061		3020	2.85mm	1 kg
Red Transparent	55062			2.85mm	1 kg
Blue	55063		5002	2.85mm	1 kg
Blue Transparent	55064			2.85mm	1 kg
Green Transparent	55065			2.85mm	1 kg

Verbatim filament is manufactured from high quality materials to extremely rigid standards. The filaments are manufactured from the highest quality materials and produced to extremely tight tolerances to ensure consistent feed and stable printing. The filaments are distributed in vacuum-sealed bags with desiccant, and wound onto a custom spool that has been designed for strength, uniform dynamic performance and trouble-free dispensing.

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