

## PET-G Filament

*Polyethylene Terephthalate Glycol-modified (PET-G) PET-G is the common thermoplastics of the polyester family.*

### Key properties

- Clear amorphous thermoplastics with a lower melting point than PET.
- Particularly suitable for use in FDM and FFF 3D printers
- According EC no. 1935/2004, EC no. 2023/2006 and EC no. 10/2011

### Measurements & Tolerances

Diameter	Tolerance	Roundness
1,75 mm Filament	+/- 0,05 mm	99%
2,85 mm Filament	+/- 0,06 mm	99%

Moisture content	< 0,005%
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### Technical information

PET-G is used in fibers for clothing, bottles for liquids and foods. PET-G is a modified PET, PET-G is a clear amorphous thermoplastics with a lower melting point than PET.

Our PET-G Filament has unique properties because it does not come into contact with water during the production process and is directly packaged in a vacuum packaging. These properties make the PET-G Filament particularly suitable for use in FDM and FFF 3D printers. The material has an excellent adhesion between layers which results in great improvement of the impact resistance, strength, durability and the printing process.

# Datasheet

## Physical properties

Description	Value	Test method
Density	1,29 g/cm <sup>3</sup>	D 792

## Mechanical properties

Description	Value	Test method
Tensile Stress	53 Mpa	ISO 527-2
Flexural Modulus	2040 Mpa	ISO 178
Impact strength Notched Izod	4,5 KJ/m <sup>2</sup>	ISO 180
Optical haze	< 1,0%	D 1003

## Printer settings

Description	Value
Printer nose temperature	210 – 235°C
Heated platform temperature	50 – 80°C

Our PET-G Filament meets the European regulations EC No. 1935/2004, EC No. 2023/2006 and EC No. 10/2011 concerning plastic materials and articles coming into contact with food. The colorants used to colour the Filament also meet these European regulations.

To get the best results while printing we advise you to keep the 3D printer in a room where there is hardly any draft and/or temperature fluctuations. Keep the 3D printer out of the sun. This cannot be a room where people sleep.

When the 3D printer is not being used it is important to keep the PET-G Filament in a bag and stored in a cool, dry and dark place until it is used again.

# Datasheet

## Safety information

REGULATION (EC) No. 1272/2008. According to EC regulations this product is not classified as hazardous. Classification according to EU-directive 67/548/EEC or 1999/45/EC. According to EC criteria this product is not classified as hazardous.

## Composition and information on the components

This product is a mixture.

Substance name	CAS-No.	Concentration (%)	Classification Regulation (EC) No. 1272/2008 and Directive 76/548/EEC
Neopentylglycol-ethyleneglycol Terephthalate copolymer	026780-49-4	100%	Not classified

## Legally Obligated Information

1 Specific safety, health and environmental regulations and legislation for the substance or mixture.

*Classification of the substance or mixture*

The substance is not classified as dangerous according to Regulation (EC) no 1272/2008 (CLP/GHS) and Directive 67/548/EEC.

2 Chemical safety assessment: Does not apply

RoHS (Restriction of Hazardous Substances) and REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)

## Recommended restrictions

Do not use in medical applications involving permanent implantation in the human body.

## Environmental information

Plastic waste can damage the environment. 3D misprints must be separated with plastic waste together with the Filament reel. We are developing a return system for 3D misprints and the Filament reel.

Together we can protect the environment!