

PETG Filament

PLA & PETG 3D printing filament. 1.75 mm, 1 kg spools.

Glycol-modified PET (PETG) · FDM / FFF filament · 1.75 mm

MATERIAL	DIAMETER	NET WEIGHT	REVISION	DOCUMENT
PETG	1.75 mm ± 0.02	1 kg	1.0 · Jun 2026	SPL-MSDS-PETG

1 · IDENTIFICATION

Product name	PETG 3D Printing Filament
Material	Polyethylene terephthalate glycol (PETG)
Product use	FDM / FFF 3D printing material
Brand	spool
Supplier	spool · spool3d.com.au
Filament diameter	1.75 mm ± 0.02 mm
Net weight	1 kg

2 · HAZARD IDENTIFICATION

GHS classification

Not classified as hazardous.

Signal word

None (not applicable).

Hazard statements

- Not hazardous under normal handling conditions.
- Molten material may cause thermal burns.
- Processing fumes at elevated temperatures may cause respiratory irritation.

3 · COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	CONCENTRATION
PETG copolyester resin	Proprietary	≥ 98%
Pigments & additives	Proprietary	≤ 2%

4 · FIRST AID MEASURES

Inhalation

Move to fresh air. Seek medical attention if symptoms persist.

Skin contact

Cool burns immediately with water. Do not attempt to remove solidified polymer.

Eye contact

Flush thoroughly with water for at least 15 minutes.

Ingestion

Rinse mouth and seek medical advice if discomfort occurs.

5 · FIRE - FIGHTING MEASURES

Suitable extinguishing media

- Water spray
- Foam
- Dry chemical
- Carbon dioxide

Hazardous combustion products

- Carbon monoxide
- Carbon dioxide
- Organic decomposition products

6 · ACCIDENTAL RELEASE MEASURES

Collect material mechanically and dispose of according to local regulations. No special environmental precautions required.

7 · HANDLING & STORAGE

Handling

- Avoid overheating.
- Maintain adequate ventilation during printing.
- Avoid inhalation of processing fumes.

Storage

- Store in a dry environment.
- Keep packaging sealed.
- Protect from moisture.
- If moisture is absorbed, pre-dry filament at 65–75 °C for 4–6 hours before printing.

8 · EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection

Safety glasses recommended.

Hand protection

Heat-resistant gloves.

Respiratory protection

Normally not required; use local ventilation when processing.

9 · PHYSICAL & CHEMICAL PROPERTIES

Appearance	Solid filament
Colour	Various colours
Density	~1.27 g/cm ³
Melting temperature	~230 °C
Recommended nozzle temperature	220–255 °C
Recommended bed temperature	60–80 °C
Glass transition temperature	~80 °C
Vicat softening temperature	~85 °C
Water solubility	Insoluble

10 · STABILITY & REACTIVITY

Stability

Stable under recommended conditions.

Conditions to avoid

- Excessive temperatures
- Open flames
- Prolonged exposure above 260 °C

Incompatible materials

Strong oxidisers, acids and alkalis.

11 · TOXICOLOGICAL INFORMATION

No known acute toxic effects. Molten material may cause thermal burns. Fumes generated during processing may cause temporary respiratory irritation.

12 · ECOLOGICAL INFORMATION

Environmental impact

No significant environmental hazard known.

Biodegradability

Not readily biodegradable.

Bioaccumulation

Not expected.

13 · DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Recommended methods:

- Recycling
- Controlled incineration
- Approved landfill disposal

14 · TRANSPORT INFORMATION

UN number	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Marine pollutant	No
Dangerous goods	Not classified for transport

15 · REGULATORY INFORMATION

COMPLIANT

RoHS 2011/65/EU + (EU) 2015/863 compliant. REACH compliant. Not classified as hazardous under GHS. RoHS test report ref. UNIB26031912HR-01 — all restricted substances Not Detected (Pass).

16 · OTHER INFORMATION

Issue date	June 2026
Version	1.0
Document	SPL-MSDS-PETG
Prepared by	spool

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