

Material Safety Data Sheet (MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: PETG Filament

Material Name: Polyethylene Terephthalate Glycol-modified

Product Use: FDM / FFF 3D printing filament

Supplier / Manufacturer:

Fabbxible Technology

11A, Jalan Iks Bukit Tengah, Taman Iks Bukit Tengah, Taman Iks Bukit Tengah,
14000 Bukit Mertajam, Pulau Pinang.

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2. HAZARDS IDENTIFICATION

GHS Classification:

Not classified as hazardous according to GHS standards.

Signal Word: None

Hazard Statements:

- Solid filament presents no significant hazard.
- Heating above processing temperature may release vapors that may irritate eyes and respiratory system.

Precautionary Statements:

- Avoid inhalation of fumes during printing.
- Use in a well-ventilated area.

- Avoid contact with molten material.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Polyethylene Terephthalate Glycol-modified (PETG)	25640-14-6	> 99%
Additives (colorants, stabilizers)	Proprietary	< 1%

4. FIRST AID MEASURES

Inhalation:

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

Skin Contact:

Wash with soap and water. Molten polymer may cause thermal burns—seek medical attention immediately.

Eye Contact:

Rinse with clean water for several minutes. Remove contact lenses if present.

Ingestion:

Not intended for ingestion. Seek medical advice if swallowed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, dry chemical, foam, or CO₂.

Hazardous Combustion Products:

Carbon monoxide (CO), carbon dioxide (CO₂), and other organic vapors.

Protective Equipment:

Self-contained breathing apparatus (SCBA) recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid slipping hazard from spilled pellets or filament.

Cleanup Method:

Sweep or collect mechanically. Avoid dust formation.

Environmental Precautions:

Do not allow material to enter waterways.

7. HANDLING AND STORAGE

Handling:

- Avoid breathing fumes during processing.
- Do not touch molten material.

Storage:

- Store in a cool, dry place.
 - Keep away from direct sunlight and moisture.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

No occupational exposure limits established for PETG.

Engineering Controls:

Local exhaust ventilation recommended during printing.

Personal Protective Equipment:

- **Respiratory:** Not normally required; use mask if ventilation is poor
 - **Eye Protection:** Safety glasses recommended
 - **Skin Protection:** Heat-resistant gloves when handling hot parts
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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Solid filament
Color	Various
Odor	Odorless (slight odor when heated)
Density	~1.23 g/cm ³
Melting Temperature	~230–260°C

Solubility	Insoluble in water
Flash Point	> 400°C

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Conditions to Avoid: Excessive heat, open flame

Hazardous Decomposition: CO, CO₂, aldehydes under extreme heat

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Not classified
 - **Skin Irritation:** Not expected
 - **Eye Irritation:** Not expected
 - **Inhalation:** Fumes may cause irritation during overheating
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12. ECOLOGICAL INFORMATION

- Not biodegradable
 - No known aquatic toxicity
 - Avoid uncontrolled environmental release
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13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local regulations.
Recycling is recommended where facilities are available.

14. TRANSPORT INFORMATION

Not regulated as hazardous material under ADR, IMDG, or IATA.

15. REGULATORY INFORMATION

- Not classified as hazardous under GHS
 - REACH: Not subject to authorization
 - TSCA: Components listed or exempt
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16. OTHER INFORMATION

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Disclaimer: The information above is believed to be accurate but is not guaranteed. The user is responsible for determining the suitability of this material for a specific purpose and ensuring compliance with local regulations.