



SAFETY DATA SHEET

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PETG 3D Printer Filament

PETG copolyester · Product code CX13

1. Identification

Product identifier	PETG 3D Printer Filament
Product code	CX13
Recommended use	3D printing (FFF/FDM) filament, thermoplastic
Restrictions on use	Not specified
Supplier	COEX LLC, 1228 Elizabeth St, Green Bay, WI 54302, USA
Telephone	(920) 757-1055
Emergency telephone	(920) 757-1055 (business hours)
Website	www.coex3d.com

2. Hazard identification

Classification	Not classified according to OSHA 29 CFR 1910.1200
Label elements	Pictogram and symbol: Not applicable. Signal word: Not applicable. Hazard statements: Not applicable. Precautionary statements: Precaution: Not applicable. Treatment: Not applicable. Storage: Not applicable. Disposal: Not applicable.
Hazards not otherwise classified	No data available
Other information	Other hazard information not included in hazard classification (NFPA): Health: Not available. Flammability: Not available. Reactivity: Not available. Matte PETG (matte additive): under hot melt processing conditions wear personal protective equipment to prevent thermal burns; product dust can form an explosive mixture with air.

3. Composition / information on ingredients

Chemical name	CAS No.	Weight %
Copolyester (PETG)	proprietary (no CAS number given)	100 (Matte PETG: 90)
Matte additive masterbatch: PETG copolyester carrier and proprietary additives (Matte PETG only)	25640-14-6 (PETG copolyester carrier); additives: proprietary, no CAS given	10

Matte PETG is 90 % PETG copolyester and 10 % matte additive masterbatch. The matte additive masterbatch contains PETG copolyester (CAS 25640-14-6, 30-95 % of the masterbatch) and proprietary additives (5-70 % of the masterbatch). The suppliers state that neither the PETG copolyester nor the masterbatch contains substances considered hazardous to health. Colorants are not covered by this composition.

4. First-aid measures

Inhalation	Specific medical treatment is urgent. Move victim to fresh air. Administer oxygen if breathing is difficult. Matte PETG (matte additive): if difficulties occur after dust has been inhaled, remove to fresh air and consult a physician.
Eye contact	In case of contact with substance, immediately flush eyes with running water at least 20 minutes. Matte PETG (matte additive): consult a physician.
Skin contact	In case of contact with substance, immediately flush skin with running water at least 20 minutes. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing and shoes before reuse. Get immediate medical advice/attention. Matte PETG (matte additive): wash skin with soap and water when in contact with molten residues; burns caused by molten material require hospital treatment.
Ingestion	Do not let him/her eat anything, if unconscious. Get immediate medical advice/attention. Matte PETG (matte additive): drink plenty of water; do not induce vomiting without medical advice; call a physician immediately.
Most important symptoms	Not available.
Note to physicians	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2. Unsuitable extinguishing media: High pressure water streams.
Special hazards	May be ignited by heat, sparks or flames. Containers may explode when heated. Some of these materials may burn, but none ignite readily. If inhaled, may be harmful. Fire will produce irritating and/or toxic gases. Matte PETG (matte additive): product dust can form an explosive mixture with air.
Protective equipment	Dike fire-control water for later disposal; do not scatter the material. Move containers from fire area if you can do it without risk. Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out. Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Fire involving Tanks; Always stay away from tanks engulfed in fire. Matte PETG (matte additive): firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Further information	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions	Spilled filament or pieces may cause a slipping hazard. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system. Keep out of waterways.
Cleaning up	Pick up or sweep up and place in a suitable container for disposal.

7. Handling and storage

Safe handling	Please note that materials and conditions to avoid. Wash thoroughly after handling. Please work with reference to engineering controls and personal protective equipment. Be careful to high temperature. Matte PETG (matte additive): avoid inhalation of dusts/mists/vapors; take precautionary measures against static discharges.
Fire and explosion	Dust from grinding or sanding can form an explosive mixture with air. Take precautionary measures against static discharges.
Storage	Store in a closed container. Store in cool and dry place. Matte PETG (matte additive): keep container tightly closed and dry; avoid dust formation; protect against moisture.
Incompatibilities	Combustibles

8. Exposure controls / personal protection

Exposure limits	ACGIH regulation: Not available. Biological exposure index: Not available. OSHA regulation: Not available. NIOSH regulation: Not available. EU regulation: Not available. Other: Not available.
Engineering controls	Provide exhaust ventilation if dust or fumes are generated during processing.
Personal protection	Engineering controls: Provide local exhaust ventilation system or other engineering controls to keep any airborne contamination below the respective threshold limit value. Respiratory protection: Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary. Eye protection: Wear facepiece with goggles to protect. An eye wash unit and safety shower station should be available nearby work place. Hand protection: Wear chemical resistant gloves. Body protection: Wear appropriate protective chemical resistant clothing.
Hygiene	Do not eat or drink while working. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Solid (pellets); color: Colorless or varies with product
Odor	Slight odor
Odor threshold	Not applicable
pH	Not applicable
Melting temperature	Not applicable
Freezing point	No data available
Boiling point	Decomposes; not determined
Flash point	Not available
Evaporation rate	Not applicable (solid)
Flammability	Not available. Matte PETG (matte additive): may form combustible dust concentrations in air during processing.
Explosive limits	No data available
Vapor pressure / vapor density	No data available
Density	Specific gravity: > 1. Typical density 1.27 g/cm ³ (ASTM D792)
Solubility in water	Negligible
Partition coefficient	No data available
Auto-ignition temperature	Not available
Decomposition temperature	Not available. Matte PETG (matte additive): thermal decomposition above 270 °C.
Viscosity	Not applicable (solid)
Oxidizing properties	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No data available
Hazardous reactions	Fire may produce irritating and/or toxic gases. Inhalation of material may be harmful.
Conditions to avoid	Ignition sources (heat, sparks or flames). Matte PETG (matte additive): temperatures above 270 °C.
Incompatible materials	Combustibles
Hazardous decomposition products	Irritating and/or toxic gases. Matte PETG (matte additive): carbon monoxide, carbon dioxide.

11. Toxicological information

Routes of exposure	Inhalation, ingestion, eye or skin contact.
Acute toxicity	Information on the likely routes of exposure: Not available. Acute toxicity: Oral: Not available. Dermal: Not available. Inhalation: Not available. Matte PETG (matte additive): contact with molten product may cause thermal burns.
Inhalation	Not inhalable in the form supplied.
Irritation	Skin corrosion/irritation: Not classified. Serious eye damage/irritation: Not classified. Matte PETG (matte additive): irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes; thermal decomposition products can irritate the eyes, skin and respiratory tract; may cause mechanical eye irritation.
Sensitization, repeated dose, mutagenicity, carcinogenicity, reproductive toxicity	Respiratory sensitization: Not available. Skin sensitization: Not available. Carcinogenicity: Not available. Mutagenicity: Not classified. Reproductive toxicity: Not available. Specific target organ toxicity (single exposure): Not classified. Specific target organ toxicity (repeat exposure): Not classified. Aspiration hazard: Not available.
Aspiration hazard	None expected.

12. Ecological information

Aquatic toxicity	Acute toxicity: Not available. Chronic toxicity: Not available. Mobility in soil: Not available. Other hazardous effect: Not available. Hazardous to the ozone layer: Not classified.
Persistence and degradability	Persistence: Not available. Degradability: Not available.
Bioaccumulation	Bioaccumulation: Not available. Biodegradation: Not biodegradable.

13. Disposal considerations

Product	Dispose of in accordance with local, state and federal regulations. Check for recycling options. Do not release into the environment.
Packaging	Empty spools and packaging can be recycled if not contaminated.

14. Transport information

US DOT, IMDG, IATA/ICAO	UN Number: Not applicable. UN Proper shipping name: Not applicable. Transport Hazard class: Not applicable. Packing group: Not applicable. Environmental hazards: Not applicable.
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15. Regulatory information

U.S. TSCA	Matte PETG (matte additive): Complies. PETG base resin: status not stated by the resin maker.
SARA 313	U.S.A management information (EPCRA 313 Regulation): Not regulated.

16. Other information

NFPA hazard codes	Health: Not available. Flammability: Not available. Reactivity: Not available. Matte PETG (matte additive): Health 1, Flammability 1, Reactivity 0.
HMIS III rating	Not available. Matte PETG (matte additive): Health 1, Flammability 1, Physical hazard 0.
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Prepared by	COEX LLC

This data is based on the current state of our information and experience.

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