



SAFETY DATA SHEET

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COEXFlex™ TPE 30D 3D Printer Filament

Thermoplastic copolyester elastomer (TPC-ET) · Product code CX20

1. Identification

Product identifier	COEXFlex™ TPE 30D 3D Printer Filament
Product code	CX20
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	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Hazards for the product as supplied: Not a hazardous substance or mixture. Hazards associated with a change in physical form: If small particles are generated during further processing, handling or by other means: May form combustible dust concentrations in air.
Label elements	GHS label elements. Signal word: Warning. Hazard statements: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Hazards not otherwise classified	Other hazards: None known.
Other information	None known.

3. Composition / information on ingredients

Chemical name	CAS No.	Weight %
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Maker: Substance / Mixture: Mixture. This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2024.

4. First-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Skin contact	The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn.
Ingestion	No specific intervention is indicated. Consult a physician if necessary.
Most important symptoms	None known.
Note to physicians	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Foam. Dry chemical. Carbon dioxide (CO ₂)
Special hazards	Combustible. Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Material in pellet form may accumulate static charge when poured from one container to another. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include: Carbon monoxide, carbon dioxide (see also section 10)
Protective equipment	Wear self-contained breathing apparatus and protective suit. Further information: Evacuate personnel and keep upwind of fire.
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	Open container only in well-ventilated area. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Minimize the generation and accumulation of dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
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 cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers.
Incompatibilities	Strong acids. Strong bases. Strong oxidizing agents

8. Exposure controls / personal protection

Exposure limits	This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard. Non-constituent: Dust (inhalable and respirable fraction), CAS Not Assigned. OSHA Z-3: TWA (total dust) 50 million particles per cubic foot; TWA (total dust) 15 mg/m ³ ; TWA (respirable fraction) 5 mg/m ³ ; TWA (respirable fraction) 15 million particles per cubic foot. ACGIH: TWA (respirable particulate matter) 3 mg/m ³ ; TWA (inhalable particulate matter) 10 mg/m ³ .
Engineering controls	Provide exhaust ventilation if dust or fumes are generated during processing.
Personal protection	Respiratory protection: Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Use a positive pressure air supplied respirator if exposure levels are not known or there are any other circumstances where air purifying respirators may not provide adequate protection. Consult the OSHA respiratory protection information located at 29CFR 1910.134. Hand protection: Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding. When handling hot material, use heat resistant gloves. Eye protection: Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material. A full-face mask respirator provides protection from eye irritation. Skin and body protection: If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.
Hygiene	Do not eat or drink while working. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Appearance: pellets. Colour: natural colour
Odor	none
Odor threshold	Not applicable
pH	Not applicable
Melting temperature	Melting point / range: > 266 °F / > 130 °C
Freezing point	No data available
Boiling point	Decomposes; not determined
Flash point	Not applicable
Evaporation rate	Not applicable (solid)
Flammability	Flammability (solid, gas): May form combustible dust concentrations in air during processing, handling or other means.
Explosive limits	No data available
Vapor pressure / vapor density	No data available
Density	Relative density: >1
Solubility in water	Water solubility: insoluble. pH: Substance/mixture is non-soluble (in water).
Partition coefficient	No data available
Auto-ignition temperature	Self-ignition: Not applicable
Decomposition temperature	> 527 °F / 275 °C. Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Viscosity	Not applicable (solid)
Oxidizing properties	No data available

10. Stability and reactivity

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	Stable at normal ambient temperature and pressure.
Hazardous reactions	Polymerization will not occur.
Conditions to avoid	Temperature > 275 °C. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents
Hazardous decomposition products	Hazardous thermal decomposition products may include: Carbon monoxide, carbon dioxide, Tetrahydrofuran, acetic acid, 2-Methylpropene, acetaldehydes, Propionaldehyde, formic acid, Acrolein

11. Toxicological information

Routes of exposure	Inhalation, ingestion, eye or skin contact.
Acute toxicity	Acute toxicity: Not classified due to lack of data. Further information, Remarks: No data is available on the product itself. For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1.
Inhalation	Not inhalable in the form supplied.
Irritation	Skin corrosion/irritation: Not classified due to lack of data. Serious eye damage/eye irritation: Not classified due to lack of data.
Sensitization, repeated dose, mutagenicity, carcinogenicity, reproductive toxicity	Respiratory sensitisation: Not classified due to lack of data. Skin sensitisation: Not classified due to lack of data. Germ cell mutagenicity: Not classified due to lack of data. Carcinogenicity: Not classified due to lack of data. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Reproductive toxicity: Not classified due to lack of data. STOT - single exposure: Not classified due to lack of data. STOT - repeated exposure: Not classified due to lack of data. Aspiration toxicity: Not classified due to lack of data.
Aspiration hazard	None expected.

12. Ecological information

Aquatic toxicity	Ecotoxicity: No data available. Mobility in soil: No data available. Other adverse effects, Additional ecological information: No data is available on the product itself. Toxicity is expected to be low based on insolubility in water. Endocrine disrupting properties: No data available
Persistence and degradability	Persistence and degradability: No data available
Bioaccumulation	Bioaccumulative potential: No data available

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	UNRTDG: Not regulated as a dangerous good. IATA-DGR: Not regulated as a dangerous good. IMDG-Code: Not regulated as a dangerous good. Transport in bulk according to IMO instruments: Not applicable for product as supplied. 49 CFR: Not regulated as a dangerous good. Special precautions for user, Remarks: Not classified as dangerous in the meaning of transport regulations.
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15. Regulatory information

U.S. TSCA	In compliance with TSCA-active Inventory requirements for commercial purposes. No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

16. Other information

NFPA hazard codes	No data available
HMIS III rating	No data available
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Prepared by	COEX LLC

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

www.coex3d.com

Disclaimer: The safety data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data describes our product in terms of safety requirements. The data provided is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for the use of this product.