

SAFETY DATA SHEET

1. IDENTIFICATION

- **Product Trade Name:** GT FLEX® ORIGINAL, GT FLEX® PRO
- **Product Description:** PETG copolyester thermoforming sheets
- **Recommended Use:** For making dental appliances, namely, teeth aligners and orthodontic retainers
- **Manufactured for:**
Good Fit Technologies, LLC
100 Cambridge St., Suite 1400
Boston, MA 02114, USA
Phone: (617) 973-5136
Email: support@goodfit.com
Website: www.goodfit.com
- **Emergency Phone:** (508) 591-0744

2. HAZARD(S) IDENTIFICATION

- **Hazard Classifications:** none
- **Appearance (in emergencies):** odorless, solid, clear plastic
- **Precautionary Statements:**
When thermoforming, grinding or polishing product:
 - Avoid contact with hot or molten material; contact with hot or molten material will cause thermal burns
 - Wear eye protection and face shield to protect eyes and face from molten material and dust
 - Work in well-ventilated area and wear respiratory protection to avoid inhaling dust or irritating vapors that may be given off by product as a result of burning or thermal decomposition
- **HMIS & NFPA ratings (scale 0-4; 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme):**
Health = 1
Fire = 1
Reactivity = 0
- **Explosion Hazards:** as shipped, this product is not classified as a combustible dust, but a combustible concentration of dust may occur when grinding or polishing the material. Use adequate ventilation to avoid build-up of dust from this material suspended in air and avoid contact with strong oxidizing agents.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Primary ingredients:**

Chemical Name	CAS No	Weight %	Trade Secret
PETG Copolyester	Proprietary	100	

4. FIRST-AID MEASURES

- **General Notes:** In all cases of doubt, or when symptoms persist, call a physician.
- **Emergency procedures and first aid after:**
 - **Inhalation:** If dust from grinding or polishing product is inhaled, remove victim to fresh air. If symptoms persist, call a physician.
 - **Eye Contact:** If molten material or dust from grinding or polishing product gets in eyes, immediately flush with plenty of water. After initial flushing, remove any contact lenses (if easy to do so) and continue flushing for at least 15 minutes. Call a physician.
 - **Skin Contact:** If dust from grinding or polishing product gets on skin, wash with plenty of soap and water. If skin irritation or rash occurs, call a physician. If burned by contact with hot or molten material, cool as quickly as possible; DO NOT PEEL MATERIAL FROM SKIN; immediately seek medical attention.
 - **Ingestion:** If dust from grinding or polishing product is ingested, observe for negative reactions; material is not expected to be absorbed from gastrointestinal tract, so induction of vomiting should not be necessary unless victim has known allergies to plastics or shows symptoms of potential allergic reactions (e.g. irritation of mouth or throat). In case of any doubt or symptomatic reaction, call a physician.
- **Note to physicians:** treat symptoms conventionally. Burns should be treated as thermal burns. Melted material that may have adhered to skin will slough off as healing occurs; immediate removal is not necessary.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Water spray, carbon dioxide (CO₂), dry chemical.
- **Protective Equipment for Fire Extinguishing:** Wear self-contained breathing apparatus and full protective gear; fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

- **Techniques, procedures and materials in case of:**



- **Spill of Molten Material:** allow material to cool before cleaning; avoid breathing vapors of hot or molten material. When cool, clean and dispose of material as follows:
- **Small Spill (when material is cool):** sweep or pick up product manually (use gloves) and dispose as normal solid waste
- **Large Spill (when material is cool):** sweep or pick up product manually (use gloves) and dispose as normal solid waste.

7. HANDLING AND STORAGE

- **Handling:** no special handling measures required.
- **Storage:** store in a cool, dry area at a temperature between 5°C and 30°C (41°F and 86°F). Avoid exposing material to direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure Guidelines:** no specific controls to exposure are required.
- **Individual protective measures, such as personal protective equipment:**
 - **Eye / face protection:** Depending on the use of this product (e.g. if heating/thermoforming, grinding or polishing product), safety glasses or goggles should be worn. If necessary, refer to US OSHA 29CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eye.
 - **Skin / body protection:** To avoid contact with hot or molten material or if anticipated that prolonged and repeated skin contact to dust will occur during use of this product (e.g. when grinding or polishing product), wear gloves for routine industrial use and suitable protective clothing. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate standards of Canada or the EC member states.
 - **Respiratory protection:** When heating/thermoforming, grinding or polishing product, wear suitable respiratory equipment to protect from inhalation of dust. In the event of formation of particularly high levels of vapor (e.g. when product is exposed to temperatures above 250°C (482°F)), a self-contained breathing apparatus may be appropriate.
 - **General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

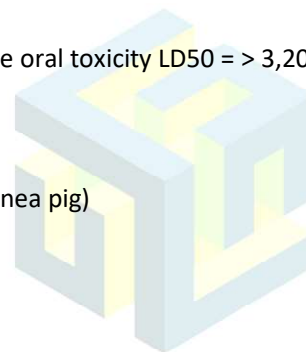
- **Form or Appearance:** product appears as solid sheets of plastic material in various shapes and thicknesses.
- **Color:** the material is transparent, but may be packaged with thin, protective lamination on one or both sides; this protective lamination may be transparent (clear) or translucent with a tinted color (e.g. blue, green, or red).
- **Odor:** odorless.
- **Physical State:** solid.
- **pH:** not applicable.
- **Vapor Pressure:** not applicable.
- **Vapor Density:** not applicable.
- **Boiling Point:** not determined.
- **Melting Point:** not determined.
- **Decomposition Temperature:** approximately 380°C (716°F).
- **Flash Point:** > 450°C (842°F).
- **Auto-Ignition Temperature:** 471°C (880°F).
- **Solubility in Water:** not soluble.
- **Specific Gravity:** 1.27.

10. STABILITY AND REACTIVITY

- **Chemical Stability:** product is stable under normal handling and storage conditions.
- **Conditions to Avoid:** Protect from excessive heat; keep away from sources of ignition and heat.
- **Incompatibility with Other Materials:** material reacts with strong oxidizing agents.
- **Hazardous Decomposition Products:** thermal decomposition or combustion may emit irritating vapors, carbon monoxide, or carbon dioxide.
- **Hazardous Polymerization:** none known.

11. TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** LD50 = > 3,200 mg/kg (rat, male) Acute oral toxicity LD50 = > 3,200 mg/kg (mouse, male)
- **Acute dermal toxicity:** LD50 = > 1,000 mg/kg (guinea pig)
- **Skin irritation:** slightly irritating (guinea pig)
- **Eye irritation:** slightly irritating (rabbit); non-irritating (guinea pig)
- **Additional Information:** none.



12. ECOLOGICAL INFORMATION

- **Aquatic Toxicity:**
 - **Fish toxicity:** LC50/96-hr = > 100 mg/l pimephales promelas)
 - **Aquatic invertebrates toxicity:** LC50/96-hr = > 100 mg/l (daphnia magna)
- **Persistence and Degradability:** non-biodegradable.
- **Bioaccumulative Potential:** no further relevant information available.
- **General Notes:** product is a solid, inert material with low volatility and that is insolubility in water.

13. DISPOSAL CONSIDERATIONS

Recycle this product if possible. Dispose of this product in accordance with federal, state and local regulations. Do not throw waste material of this product into waterways. Dispose of product as normal, solid waste.

14. TRANSPORT INFORMATION

- **Dangerous Material:** none.
- **Type of Risk:** none.
- **Other Notes:** this product is not regulated by DOT, IMO, IATA, and Canadian TDG and associated regulation, ADR or RID.

15. REGULATORY INFORMATION

- **OSHA Hazard Communication:** non-hazardous.
- **Toxic Substances Control Act:** listed.
- **CERCLA Hazardous Substances (40 CFR 302):** none.
- **SARA Section 311/312:** non-hazardous.
- **SARA Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** none.
- **SARA Section 313 Toxic Chemicals (40 CFR 372.65):** none.
- **RCRA Hazardous Wastes (40 CFR 261):** when product becomes waste, it is identified as a solid, not hazardous waste under RCRA criteria (40 CFR Part 261).
- **Canadian WHMIS:** none.

16. ADDITIONAL INFORMATION

- **Issue Date:** December 28, 2019
- **Revision Date:** April 15, 2021
- **Revision Note:** update to trademark status of products (changed TM to ®)

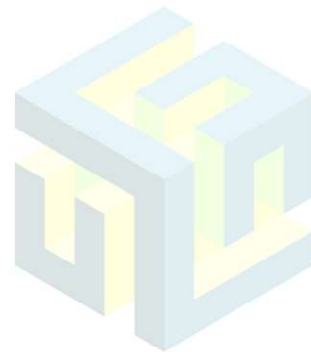
Disclaimer: the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific



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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



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