

# MATERIAL SAFETY DATA SHEET

## TKG® ET (PET)

### Section 1. COMPANY AND PRODUCT IDENTIFICATION

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**Material Name:** TKG® ET  
PET. POLYETHYLENE TEREPHTHALATE

### Section 2. COMPOSITION / INFORMATION ON COMPONENTS

MATERIAL	CAS Number
Polyethylene Terephthalate	25038-59-9

### Section 3. HAZARDS IDENTIFICATION

**Ingestion:** Not a probable route of exposure.

**Skin:** Molten material will cause thermal burns.

**Eye:** Mechanical irritation only.

**Inhalation:** Stock shapes are not respirable, avoid breathing dust, as fine particles can be inhaled and retained in the lungs.

### Section 4. FIRST AID MEASURES

**Inhalation:** If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist.

**Skin:** Wash skin with soap and plenty of water.  
If molten material contacts skin, cool rapidly with cold water. Do not attempt to peel material from skin.  
Obtain medical attention to thermal burn.

**Eye:** Flush eyes with water. Consult a physician if symptoms persist.

**Chronic effects:** None known.

**Medical conditions generally aggravated by this material:** None known.

### Section 5. FIRE FIGHTING MEASURES

**Flash ignition temperature:** 350°C / 662°F

**Method:** ASTM D-1929

**Unusual fire, explosion hazards:** None known.

Notice: To the best of our knowledge, the information contained in this Material Safety Data Sheet is accurate. However, neither TRAUD VILLARROYA HNOS. S.L. nor any of its representatives assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. The most recent update can be found at [www.traidvillarroya.com](http://www.traidvillarroya.com).

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**Hazardous combustion products:** At temperatures above 350°C / 662°F, heavy fuming, carbon dioxide and carbon monoxide will occur.

**Special fire fighting instructions:** Fire fighters and others exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

**Extinguishing media:** Water spray or any class a extinguishing agent.

### Section 6. ACCIDENTAL RELEASE MEASURES

**Spill or release:** Clean up by vacuuming or sweeping to prevent falls.

### Section 7. HANDLING AND STORAGE

**General advice:** Practice reasonable care and caution in handling.

### Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye:** Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

**Skin:** Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

**Ventilation:** Local exhaust at processing equipment to assure that particulate levels are kept at recommended levels.

**Respirator:** None under normal processing, if ventilation is adequate.

**Work / hygiene practices:** Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Material shavings on hard surface can be a serious slipping/falling hazard. Use care when walking shavings.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Stock shape may be rod, plate or tube form.

**Odour:** Essentially odourless.

**Melting point:** 225-260°C / 437-500°F

**Solubility in water:** Insoluble

**Volatile content %:** <1%

**Specific gravity:** 1.33-1.43

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### Section 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use, storage and transportation.
<b>Materials to avoid:</b>	Avoid contact with strong oxidants and bases.
<b>Conditions to avoid:</b>	None known.

### Section 11. TOXICOLOGICAL INFORMATION

<b>Chronic toxicity:</b>	PET does not appear to possess any toxicological properties.
<b>Medical conditions prone to aggravation by exposure:</b>	None known.
<b>Carcinogenicity:</b>	None known.

### Section 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity:</b>	Toxicity is expected to be low based on insolubility of polymer in water.
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### Section 13. DISPOSAL CONSIDERATIONS

<b>Spill or release:</b>	Clean up by vacuuming or wet sweeping to minimize dust exposure.
<b>Waste disposal:</b>	Landfill or incineration in compliance with federal, state, and local regulations.

### Section 14. TRANSPORTATION INFORMATION

<b>Hazard class:</b>	NA
<b>Shipping name:</b>	NA

### Section 15. REGULATORY INFORMATION

NA

### Section 16. OTHER INFORMATION

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