

Safety Data Sheet



Product name: FR-PETG Mirroflex Structures and Flat Sheets

1.	<p>Substance/Preparation and Company Identification</p> <p>Polymer: Rigid Polyester Foiled PETG films</p> <p>Company name: Advanced Technology Inc. 6106 West Market Street Greensboro, NC 27409</p> <p>Information about material/preparation: Phone: 336-668-0488 (identical with emergency information)</p>														
2.	<p>Composition/Information on Ingredients</p> <p>Chemical description: Amorphous Polyester, Copolyester, Ethene, fluoro-, homopolymer, Polyethylene masking</p> <p>Dangerous components: None</p>														
3.	<p>Hazard Identification: N/A</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">68584-75-8</td> <td>2-Propenoic acid, 2-methyl-, methyl ester, polymer with oxiranylmethyl 2-methyl-2-propenoate, ammonia-modified</td> </tr> <tr> <td>1333-86-4</td> <td>Carbon black</td> </tr> <tr> <td>1309-37-1</td> <td>Iron oxide</td> </tr> <tr> <td>13463-67-7</td> <td>Titanium dioxide</td> </tr> <tr> <td>104810-48-2</td> <td>Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-</td> </tr> <tr> <td>104810-47-1</td> <td>Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-</td> </tr> <tr> <td>Not Available</td> <td>Polyester Film</td> </tr> </table>	68584-75-8	2-Propenoic acid, 2-methyl-, methyl ester, polymer with oxiranylmethyl 2-methyl-2-propenoate, ammonia-modified	1333-86-4	Carbon black	1309-37-1	Iron oxide	13463-67-7	Titanium dioxide	104810-48-2	Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	104810-47-1	Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	Not Available	Polyester Film
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4.	<p>Emergency and First Aid Procedures (only necessary when handled without care)</p> <p>Inhalation: If Polyester decomposes due to overheating or in contact with fire, remove effected persons to fresh air. In case of irritation of respiratory system or if feeling unwell after prolonged exposure, seek medical attention.</p> <p>Skin contact: If contact with hot (melt) product occurs, wash with plenty of water. Treat as for a thermal burn.</p> <p>Eye contact: After contact with hot (melt) product, immediately flush eyes with water for at least several minutes. Seek medical attention.</p> <p>Ingestion: To avoid irritation, seek medical advice.</p> <p>Advice for the doctor: After inhalation of decomposed products, treat symptoms (decontamination, vital functions). If necessary, take action against irritation of the mucous membranes with HCl.</p>														

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5.	<p>Fire Fighting Procedures</p> <p>Suitable extinguishing media: Water spray, powder, carbon dioxide</p> <p>Unsuitable extinguishing media: None</p> <p>Burning may release: Carbon Dioxide (CO₂) Water vapour (H₂O) Carbon Monoxide (CO) Aldehydes Alcohols If the burning material cannot get enough air, release of carbon monoxide, soot, and other gases and vapours is possible.</p> <p>Special protective equipment: If necessary, use air-bottled or air circulating apparatus and protective clothing for fire fighters to prevent contact with skin and eyes.</p> <p>Further information: Observe local regulations when contaminated water and burning waste are removed.</p>
6.	<p>Spill or Leak Procedures</p> <p>Personal precautions: Not applicable</p> <p>Environmental precautions: Not applicable</p> <p>Methods of cleaning: Pick up by mechanical means for disposal or reuse</p>
7.	<p>Handling and Storage Precautions</p> <p>Handling: Avoid overheating the material, it decomposes to gaseous components (see also 5.). Thermal degradation does not occur at low temperatures, but becomes faster at higher temperatures.</p> <p>Decomposition: >150°C (long-term contact) >200°C (short-term contact/i.e., warm forming) It is advisable to install low exhaust ventilation in the vicinity of processing machines in all areas where melt or high-temperature processing is carried out.</p> <p>Fire and Explosion Protection: Take precautionary measures against static discharge (i.e., using proper grounding techniques) when handling rolls or sheets in dry rooms (especially to avoid harm to people)</p> <p>Storage: Take precautionary measures to avoid fire hazard. Store in normal room conditions without direct exposure to sunlight.</p>

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8.	Exposure Control/Personal Protection Additional advice for design of machines: See item 7 Components with limits to be observed (depending upon work station): PET is recognized as safe. Given the special precautions mentioned under "7. Handling," these traces present no toxic risk to the processing personnel. Protection: Gloves should be worn when handling hot material. Safety glasses are normally recommended for all industrial workplaces when handling hot material.
9.	Physical and Chemical Properties Form: Mono films Color: From clear to black as required Smell: Odorless under normal conditions, melt material has a specific odor know as "plastic." Change of state: Softening temperature (DIN EN ISO 306): 60-90°C Glass transition temperature: approx 80°C Ignition temperature: N/A Density (DIN EN ISO 1183-2): 1,25-1,35 g/cm ³ Solubility of PET: Not soluble in: water Fire supporting properties: Polyester products are not easily combustible. This product is also fire rated.
10.	Stability and Reactivity Conditions to avoid: Thermal degradation by overheating (see 7.)
11.	Information about Toxicity Polyester is recognized as safe and biologically inert. ATI certifies that its rigid film and sheet product complies with the most recent package requirements for heavy metals of the Toxic Packaging Clearing House (TPCH, formerly CONEG) legislation and the latest March 9, 2005, requirements of Directive 2013/2/EU, as well as the Commission Decision of 2011/534/EU amending the Directive 2002/95/EC [RoHS-Reduction of Hazardous Substances] in their actual valid version.

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12.	Ecological Information Polyester is not soluble in water (WKG 0, by supplier self declaration); Polyester is harmless in contacts with fish and bacteria. In a water treatment plant, Polyester can be separated mechanically.
13.	Disposal Considerations ATI does not guarantee the recycling of customers' material due to the manufacturing process. Recycling of printed or other used material may be possible, but this depends on the degree of impurities. Due to the fire rated chemicals in this material, it is not considered biodegradable. Uncontaminated material is normally used as material for recycling, but can also be treated as household or incineration waste in accordance with local regulations. European Waste-Catalogue: code 200139 for plastics. ATI certifies that its rigid film raw material PETG complies to the European Packaging Directive EU 94/62, as well as its actual valid amendments.
14.	Transport No hazardous material according to transport regulations (ADR, RID, ADNR, IMDG, IATA).
15.	Regulatory Information EEC labelling acc. Regulation (EC) 1272/2008 (Directive 67/548/EEC) as well as its actual valid amendments: Not applicable National legislation acc. to § 4a GefStoffV: Not applicable
16.	Further Information ATI's sheet product raw materials do not contain any Ozone depleting substances, including those listed in the 1990 Clean Air Act Amendments. The information and recommendations contained herein are based upon present data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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