

Material Safety Data Sheet

Section 1. Identification

Product: American Polyfilm Polyurethane Film
Company: American Polyfilm, Inc.
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Branford, CT 06405
Tel. 203.483.9797 Fax 203.488.5524
Emergency tel.: 203.483.9797 203.606.1286

Section 2. Composition / Information on ingredients

Thermoplastic Polyurethane Elastomer Film

Section 3. Hazard identification

This product is not considered hazardous at ambient conditions and there are no known or expected health effects. When handling this product the friction could develop a hazardous charge of static electricity with the risk of fire or explosion when dealing with flammable solvents (see section 7). High temperatures may generate fumes and vapors sufficient to cause eye, skin and upper respiratory tract irritation if ventilation is inadequate. Molten film may cause thermal burns to skin and serious burns to eyes. There are no known chronic effects associated with this material.

Section 4. First aid measures

Inhalation: If decomposition products are inhaled, remove person to fresh air. If irritation develops or persists, obtain medical attention.

Eye contact: Flush eyes with water, mechanical effects only.

Skin contact: Wash off with water and soap. If molten film contacts the skin, cool the skin rapidly with water. Get medical attention if necessary.

Ingestion: No adverse effects anticipated.

Section 5. Fire fighting measures

Combustion products: Under fire conditions, film decomposes generating smoke and unidentified toxic and irritating compounds (see section 10).

Extinguish media: Small fire. Use dry chemical, CO₂, water spray, or regular foam.

Large fire. Use water spray, water fog or regular foam.
Do not use straight streams.

Fire fighting instructions: Fire fighters should wear positive pressure self-contained breathing apparatus and should be equipped with protective clothing.

Keep people away and isolate fire area.

Section 6. Accidental release measures

In case of spill, roll or gather up material and place in containers for re-use or disposal.

Section 7. Handling and storage

Static electricity can be generated when unwinding film rolls. Use proper grounding techniques when handling this product to avoid electrostatic charges. Avoid manual and direct unrolling of film rolls next to a vessel containing flammable solvents.

Storage recommendations: To maintain product quality, store product in a cool, dry area.

Section 8. Exposure controls / Personal protection

Respiratory protection: For most conditions, no respiratory protection should be needed. When dealing with solvents or at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

Eye protection: Use safety glasses if there is a potential risk for exposure to particles. Use safety glasses if vapor exposure causes eye discomfort.

Skin protection: Wear gloves for handling hot material during processing.

Section 9. Physical and chemical properties

Appearance: Flat film

Odor: Not noticeable.

Boiling point / range: Not applicable.

Melting point / range: At temperatures above 160° C.

Flash point: Not applicable.

Auto ignition: No data.

Vapor pressure: Not applicable.

Density at 23° C: 1.10 gr./cm³.

Solubility: Soluble in DMF and THF.

Viscosity at 20° C: Not applicable.

Section 10. Stability and reactivity

Product is stable at room temperature.

Hazardous decomposition products: Thermal breakdown products (combustion) may include a complex mixture of compounds, including but not limited to CO, CO₂, hydrogen cyanide, oxides of nitrogen, hydrocarbons, isocyanates, water vapor smoke. The specific materials generated will vary depending on temperature, time and other immediate environmental factors.

Conditions to avoid: Temperature above 260° C.

Section 11. Toxicological information

Inhalation: At room temperature, exposure to dust and vapors is unlikely. High temperatures may generate vapors which may cause irritation and sensitization.

Eyes: Solid or dust may cause irritation due to mechanical action. Elevated temperatures may generate vapors sufficient to cause eye irritation.

Skin contact: At room temperature essentially non-irritating to skin. At high temperature vapors may cause sensitization.

No toxicity studies have been conducted.

Section 12. Ecological information

No expected adverse effects from this product as furnished. No ecotoxicological information is available. Material is expected to have low aquatic toxicity because of its insolubility in water.

Section 13. Disposal considerations

The unused product is not considered a hazardous waste. Do not dump into any sewers, on the ground or into any body of water. Any disposal practice must be in compliance with all local laws and regulations.

Section 14. Transport information

This product is not classified as dangerous for any mode of transportation.

Section 15. Regulatory information

This product does not need special labeling.

EINECS status: All starting raw materials of this product are listed on EINECS. TSCA status: All ingredients are on the TSCA inventory.

Section 16. Other information

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