



## Material Name: LaserUltraThins

Properties:	Typical Values	ASTM Method
Tensile Strength:		
To break:	N/A Flexible Film	D-638
Elongation before break:	N/A Flexible Film	D-638
Flexural Strength:		
Loan to stretch outer surface 5%	N/A Flexible Film	D-790
Gravity:		D-792
Rockwell Hardness:		D-785
IZOD Impact Strength		
Notched at 73°F (22.777°C)	N/A Flexible Film	D-256
Notched at 32°F (0°C)	N/A Flexible Film	D-256
Deflection Temperature		
Temperature at which material deflects .010" (.254mm) at 264 psi	(200°C)	D-648
Coefficient of Thermal Expansion		
Inch/inch/°F	Undetermined	D-696

*LaserUltraThins softens at about 200°F (93.33°C) sufficiently so that it can be drilled, sawed, sheared, nailed, bonded and die-cut.*

*The base material was tested for flammability by the Underwriters Laboratories. The material is rated 94 HB on the UL 94 test.*



INNOVATIVE PLASTICS INC.

P.O. Box 7065 | Algonquin, IL 60142  
Fax: 815 477 1210 | email: IPI@mc.net  
www.inoplas.com

All IPI products are available only through your Authorized IPI distributor.

Visit [www.inoplas.com](http://www.inoplas.com) to locate a distributor in your area.



# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Laser Ultra Thins**

Product Synonym(s): Polymer

Chemical Family: Polymer

Chemical Formula: Mixture

Chemical Name: Mixture

EPA Reg Number:

Product Use: Personal Identification, Industrial and Commercial Labeling, Other

Manufactured By: Innovative Plastics Inc. ® (IPI®)

P.O. Box 7065

Algonquin, IL 60142, USA

**EMERGENCY PHONE NUMBERS:**

Medical: 911

Poison Control: 800-222-1222

Telephone Numbers

IPI Customer Service

Available Hours

8:30am-4:30pm CST

Phone Number

1-815-477-0778

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Registry Number</u>	<u>Typical Wt. %</u>	<u>OSHA</u>
Polyethylene Terephthalate	25038-59-9	>99	

The substance(s) marked with a "Y" in the OSHA column are identified as hazardous chemicals according to the criteria of the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

Sheet material, various sizes/color, and characteristic odor.

**CAUTION! MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION**

### POTENTIAL HEALTH EFFECTS:

**EYE:** Solid or dust may cause irritation. Corneal injury may occur due to mechanical action

### SKIN:

Essentially non-irritating to the skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns. No adverse effects anticipated by skin absorption.

### INGESTION:

Very low toxicity if swallowed. Harmful effects are not anticipated from ingesting small amounts.

### INHALATION:

Dust may cause irritation to upper respiratory tract (nose and throat).

## 4. FIRST AID MEASURES

### IF IN EYES:

Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. Get medical attention if irritation persists.

### IN CASE OF CONTACT:

If molten material comes in contact with the skin, do not apply ice but cool under running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe damage. Wash clothing before reuse. Get medical attention if irritation develops and persists.

## 5. FIRE FIGHTING MEASURES

### FIRE AND EXPLOSIVE PROPERTIES:

Auto-Ignition Temperature N/A  
Flash Point – NA Flash Point Method  
Flammable Limits: Upper – NA  
Lower –NA

### EXTINGUISHING MEDIA:

Water spray, foam, sand, dry chemical or carbon dioxide.

### FIRE FIGHTING INSTRUCTIONS:

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

### FIRE AND EXPLOSION HAZARDS:

Heated material can form flammable vapors with air. Can include carbon monoxide, carbon dioxide, small quantities of nitric oxides (NO<sub>x</sub>), trace levels of hydrogen chloride and acetic acid.

## 6. ACCIDENTAL RELEASE MEASURES

### IN CASE OF SPILL OR LEAK:

Contain spill. Sweep or scoop up and remove to suitable container. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

## 7. HANDLING AND STORAGE

### HANDLING:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Workers should be protected from contact with molten resin during fabrication.

### STORAGE:

Avoid temperature extremes during storage; ambient temperature preferred. Store horizontally in a dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Adequate ventilation in work area is needed due to dust or vapors created during fabrication.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

#### EYE/FACE PROTECTION:

Safety glasses or face shield should be used. If exposed to dust, chemical glasses may be required.

#### SKIN PROTECTION:

No precautions other than clean body-covering clothing should be needed. Use insulated gloves for thermal protection, when desired.

#### RESPIRATORY PROTECTION:

In dusty atmospheres, use an approved respirator.



**9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE/ODOR:

Various colors, characteristic odor

BOILING POINT:

N/A

VAPOR PRESSURE:

N/A

VAPOR DENSITY:

N/A

SPECIFIC GRAVITY:

N/A

**10. STABILITY AND REACTIVITY**CHEMICAL STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid temperatures above 572° F (300° C). Such exposure can cause product to decompose. Prolonged contact with acids, alkalis and strong oxidizing agents may attack or dissolve the polymer. CO, CO<sub>2</sub>, organic acids, aldehydes and alcohols will form under fire conditions.

**11. TOXICOLOGY INFORMATION**

No data available

**12. ECOLOGICAL INFORMATION**MOVEMENT & PARTITIONING:

In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

DEGRADATION & PERSISTENCE:

This water insoluble polymeric solid is expected to be inert in the environment. Surface photo degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

ECOTOXICITY:

Not expected to be acutely toxic, but chips may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

**13. DISPOSAL CONSIDERATIONS**

Disposal must be in accordance with applicable governmental regulations.

**14. TRANSPORT INFORMATION**

No data available



## 15. REGULATORY INFORMATION

(Not meant to be all-inclusive – selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

### U.S. REGULATIONS

No data available

### CANADIAN REGULATIONS

No data available

## 16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association):

Fire		<u>FIRE:</u>
1		Must be preheated before ignition can occur.
Health 0	0 Reactivity	<u>HEALTH:</u>
–		Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
Special		<u>REACTIVITY:</u>
		Normally stable, even under fire exposure conditions, and are not reactive with water.

### REASON FOR ISSUE:

Innovative Plastics Inc. (IPI) believes that the information provided (including data and statements) are accurate as of the date hereof. No warranty, express or implied, is made concerning the information provided. Contact IPI for further information.