

## SECTION I - PRODUCT IDENTIFICATION

Trade Name: **Iplon® WN 1500**

Product Class:

Supplier:

**Airtech International, Inc.**  
5700 SkyLab Road

Huntington Beach, CA 92647

Telephone: 714-899-8100

Fax: 714-899-8179

Emergency Telephone: **800-424-9300**

Formula: **CAS#: 24993-04-2**

## SECTION II - HAZARDOUS INGREDIENTS

**Caprolactam:**

CAS#: 105-60-2

TLV (ACGIH): 5 ppm or 1 mg/m<sup>3</sup>

ACGIH STEL: 10 ppm

Concentration %: <1

OSHA PEL: 5 ppm or 1 mg/m<sup>3</sup>

## SECTION III - PHYSICAL DATA

**Description:**

**Solubility:** Thin blue film  
Insoluble

**Melting Point:** 250°C

**Specific Gravity:** 1.13 – 1.15

**Odor:** None

## SECTION IV - FIRE AND EXPLOSION DATA

**Flash ignition temperature:** 400°C

**Method:** ASTM 1929 62

**Unusual fire, explosion hazards:**

Large molten masses may ignite. Water quenching of such masses is a good practice.

**Hazardous combustion products:**

Primarily ammonia and carbon monoxide, small amount of hydrogen cyanide, aldehydes.

limits (STP): N/A

## Special fire-fighting instructions:

No special instructions.

**Extinguishing media:**

Water, carbon dioxide, foam, dry chemical

**Auto-ignition temp:**

N/A

## SECTION V - HEALTH HAZARD DATA

**Carcinogen status:**

NTP: No

IARC: No

OSHA: No

## EMERGENCY AND FIRST AID PROCEDURE:

**In Case of Skin Contact:**

Wash skin with soap and plenty of water. If molten polymer contacts skin, cool rapidly with cold water. DO NOT attempt to peel polymer from skin. Obtain medical attention for thermal burn.

**In Case of Ingestion:**

Not a probable route of exposure.

**In Case of Eye Contact:**

Not a probable route of exposure.

**Ingestion:**

Not a probable route of exposure.

## SECTION VI - REACTIVITY DATA

**Stability:**

N/A  
Strong acids and oxidizing agents

**Incompatibilities:**

Hazardous decomposition: Caprolactam, cyclopentanone, carbon monoxide

Hazardous polymerization: Will not occur

Conditions to avoid: Heating above 340°C

## SECTION VII - SPILL, LEAK, DISPOSAL PROCEDURE

**Steps to be taken in case material is released or spilled:**

Sweep up to prevent a slipping hazard

**Waste disposal:**

Landfill or incineration in compliance with federal, state, and local regulations.

**Aquatic toxicity:**

Toxicity is expected to be low based on insolubility of the polymer in water.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

**Ventilation:**

None normally needed.

**Respiratory Protection (specify type):**

None under normal processing if ventilation is adequate

**Gloves:**

Protective gloves are required when handling hot polymer.

**Eye Protection:**

Use safety glasses as a good general safety practice.

**Protective clothing:**

Proper safety clothing

**Other protective equipment:**

N/A

### SECTION IX - SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storing:**

Cool, dry place. Keep containers tightly closed to prevent moisture absorption and contamination. Store at 70°F - 75°F and 50% - 55% relative humidity.

### USER'S RESPONSIBILITY

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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## Data Sheet

## IPPLON® WN1500

High temperature nylon bagging film with a good elongation

### ■ DESCRIPTION

Ipplon® WN1500 is a heat-stabilized nylon film for cure temperatures up to 475 °F (246 °C). Ipplon® WN1500 can be used when high temperature and high pressure are required. Ipplon® WN1500 is the recommended material for cures with phenolic resins.

### ■ TECHNICAL DATA

		Test method
Material type	Nylon	
Elongation at break	375 %	ASTM D 882
Tensile strength	9000 psi (62 MPa)	ASTM D 882
Maximum use temperature	475 °F (246 °C)	
Melt point (minimum), crystalline	500 °F (260 °C)	ASTM D789-94
Flammability (self extinguishing)	Yes	ATP-5034
Materials to avoid	Strong oxidizers	
Yield	34.5 m <sup>2</sup> /Kg/25.4 µm	
Color	Blue	
Shelf life	Indefinite	

### ■ SIZES

Available in standard thickness 0.002 inch (50 µm) and 0.003 inch (75 µm) and in a wide variety of widths in the form of lay-flat tubing, centerfold (V-fold) and sheeting. Contact Airtech or your local distributor for details and current stock.

### ■ NOTES

- > Maximum use temperature is dependent upon the duration at maximum temperature and is process specific. Airtech recommends testing prior to use.
- > Other sizes available upon request. Minimum order may be required.
- > Custom designed shapes and sizes are available to fit your individual requirements. Please consult Airtech for further information.
- > Maximum width is 90" CF (opens to 180").

Last updated : 2014-01-06

Catalog position : Bagging films