PITTSBURGH ELECTRICAL INSULATION
800 Martha Street – Pittsburgh, PA 15120
412/462-6300

Polyimide & Polyimide CR Films

1. PRODUCT IDENTIFICATION

Product Class: Polyimide & Polyimide CR Films

Manufacturing Division/Address:
Pittsburgh Electrical Insulation
800 Martha Street
Pittsburgh, PA 15120
Emergency Phone Number: 412-462-6300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
INERT POLYIMIDE FILM	100	
Exposure limits for the following may apply:		
DIMETHYL ACETAMIDE (residual in film)	127-19-5	<1.0

All applicable chemical ingredients in this material are in compliance with the chemical notification requirement of TSCA and listed on the European Inventory of Existing Chemical Substances(EINECS), or are exempt polymers whose monomers are listed on EINECS.

3. HAZARDS IDENTIFICATION

Potential Health Effects
Before using KYPI, please read the bulletin on safe handling and use.
INHALATION: Not a probable route of exposure for film.
SKIN CONTACT: No irritation is expected from handling film.
EYE CONTACT: Not a probable route of exposure for film.
INGESTION: Not a probable route of exposure for film.
Carcinogenicity Information
None

4. FIRST AID MEASURES

First Aid
INHALATION: Not a probable route of exposure for films.
SKIN CONTACT: Wash with soap and water after handling. If skin irritation develops, consult a physician.
EYE CONTACT: Flush eyes with water. Consult a physician if irritation persists.
INGESTION: Not a probable route of exposure for films.

5. FIRE FIGHTING MEASURES

Flammable Properties
Not a fire or explosion hazard.
The flammability characteristic of Polyimide Film is reported as "self-extinguishing".
Polyimide Film chars but does not burn in air. Polyimide Film will burn in an atmosphere of 100% oxygen.
The major off-gases are carbon dioxide and carbon monoxide.
The processing of Polyimide Film can cause the generation of static charge. Precautions for static charges should also be taken when removing plastic films used as protective packaging for Polyimide Film.

Extinguishing Media:
2/3
Water, Foam, Dry Chemical, and/or CO2.

Fire Fighting Instructions:
None required.

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel):
NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures:
Pick up to prevent slipping hazard.

7. HANDLING AND STORAGE

Handling (Personnel): Wash thoroughly after handling.
Storage: Store in dry, clean and draughty place, avoid from sunlight, hot and flammable materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:
Safe handling of Polyimide Film at high temperature (above 200 deg C) require adequate ventilation. If small quantities of Polyimide Film are involved, normal air circulation may be all that is needed in case of overheating, Whether or not existing ventilation is adequate at higher temperature will depend on the combined factors of film quantity, temperature and exposure time.

Personal Protective Equipment:
Safety glasses are recommended as good industrial practice.
Respirators are not needed for normal use.
Special protective clothing is not needed for normal use. Gloves are recommended as good industrial practice.

9. EXPOSURE LIMITS

DIMETHYL ACETAMIDE (residual in film)

PEL (OSHA): 10 ppm, 35 mg/m3, 8 Hr. TWA, Skin

TLV (ACGIH): 10 ppm, 36 mg/m3, 8 Hr. TWA, Skin, A4

*AEM is Polyimide Film Acceptable Exposure Max Where governmentally imposed occupational exposure Max that are lower than the AEM are in effect, such limits shall take precedence.

Testing Method of DIMETHYL ACETAMIDE (residual in film)
To take the sample of Polyimide Film 100x100mm and put it into Oven 120c, 2 hour, then weigh it at Room Temp. Named it W1. Then, re-put it into Oven 250c 30min and take it out and continuously re-put it into Oven 300c 10min, finally, weigh it at Room Temp. Name it W2.
So, the testing result is as follows:
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= ×100%

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data:

Melting Point: None

% Volatiles: 1% max

Solubility in Water: Insoluble

Odor: No odor

Form: Transparent film

Color: Light amber

Specific Gravity: >1.4

11. STABILITY AND REACTIVITY

Chemical Stability:

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials:

Avoid from strong alkaline Material (>50 deg C)

Decomposition:

At temperatures above 400 deg C, the major off-gases are carbon monoxide and carbon dioxide.

12. ENVIRONMENTAL INFORMATION

Spill response: Not applicable.

Recommended Disposal: Dispose of waste product in a sanitary landfill. Disposal alternative: Incinerate in an industrial or commercial facility in the presence of a combustible material.

Environmental Data: Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: Not applicable

VOC Less H2O & Exempt Solvents: Not applicable

Because different countries may have different regulations, please consult applicable regulations or authorities before disposal.

13. TRANSPORTATION INFORMATION

Shipping Information:

Proper Shipping Name: NOT APPLICABLE

Hazard Class: NOT REGULATED

14. OTHER INFORMATION

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body