

SAFETY DATA SHEET

According to Regulation (EU) 2015/830 and Regulation (EC) No 1907/2006

Product Name	Biaxially Oriented Polypropylene (BOPP) Film	Print Date	12.04.2005
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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product Identifier**

Trade Name PILEN, POLINEX, POLIPER, POLILABEL, POLIMET
Chemical Classification Polyolefin
Product Description Polymer Article/ Packing Material/ Labeling Material & Associated Applications

1.2. Relevant identified uses of the substance or mixture and uses advised against:**Relevant identified uses:**

PILEN Biaxially oriented polypropylene film (BOPP)
POLINEX Coextruded BOPP film
POLIPER Pearllized BOPP film
POLILABEL Label BOPP films
POLIMET Metallized BOPP film

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier POLINAS PLASTİK San. ve Tic. A.Ş.
Address Organize Sanayi Bölgesi, Cumhuriyet Cad. No: 2-26
45030
MANİSA/TÜRKİYE
Telephone Number +90 236 226 22 00
Fax Number +90 236 233 25 25
E-Mail of Competent person responsible for the SDS damla.erdiss@polinas.com.tr

1.4. Emergency telephone number

Emergency telephone No: +90 236 226 22 00 (332)
UZEM 114 (National Poison Information Center)

SECTION 2. HAZARDS IDENTIFICATION**2.1. Product classification**

This product is not classified as dangerous under Regulation (EC) No 1272/2008.
This product according 1907/2006/EC not classified as hazardous.

2.2. Label elements

Not necessarily the product to be labeled in accordance with EC regulations or the national laws.

2.3. Other hazards

The molten polymer adheres to the skin and may cause burns. Slipping hazard may occur if spilled material is present. Be aware of electrostatic charging when used.

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3. SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS
3.1. Substances

Substances / Ingredient	CAS / EC No.	%	Classification
Polypropylene	CAS No: 9003-07-0 EC No: 618-352-4	>90	NA

THE FOLLOWING FILLERS AND ADDITIVES CAN BE PRESENT

	CAS / EC No.	%	Classification
PP Terpolymer	CAS No: 25895-47-0 EC No: 607-824-5	<12	NA
Calcium Carbonate	CAS No: 471-34-1 EC No: 207-439-9	<10	NA
Titanium Dioxide	CAS No: 13463-67-7 EC No: 236-675-5	<10	NA
Aluminum	CAS No: 7429-90-5 EC No: 231-072-3	< 0,02	NA

3.2. Mixtures

No data available

SECTION 4. FIRST AID MEASURES
4.1. Description of first aid measures
Eye Contact

Dust, process, polymer vapors and fine dust of the substance can irritate the eyes. In case of exposure to hot molten material; Cold water should be applied to the affected area. Check for contact lenses and remove contact lenses. Immediately flush eyes for at least 15 minutes holding eyelids open. seek medical help.

Skin Contact

In case of skin contact, wash with water. If irritation occurs, seek medical attention. Serious burns may occur in case of contact with molten material. In case of contact with molten material, immediately flush skin with large volumes of cold or ice water for at least 15 minutes. Do not try to remove adhered material from the skin, it may seriously damage the skin. Seek immediate medical attention.

Inhalation

Vapors and fumes generated by the combustion or heating of the material may irritate the respiratory tract. In such a case, the patient should be taken to the open air immediately. Seek immediate medical attention.

Ingestion

Seek medical attention immediately. To avoid danger of suffocation, keep away from the head area and children. Ingestion may cause irritation to the mouth and throat area and the digestive tract. Do not force vomiting. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available.

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4.3. Indication of any immediate medical attention and special treatment needed

No specific treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

CO₂, Halon, AFFF (Aqueous Film-Forming Foam) Foam, water spray (mist) only to cool the surfaces exposed to the fire.

5.2. Special hazards arising from the substance or mixture

Complete combustion with an excess of oxygen forms; CO₂ and water vapor. Partial combustion forms also; CO, fumes and vapors irritating to the respiratory tract.

5.3. Advice for firefighters

Prevent the spread of fire. The fire brigade should be notified immediately. Excess personnel should be removed from the fire scene. Persons in charge of extinguishing the fire should have special protective clothing, goggles, personal oxygen cylinders. Appropriate respirators should be worn where there is a risk of exposure to harmful vapors or fumes from the material. Pressurized water should not be used as it may cause the fire to spread.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Film reels and pallets are very heavy. The edges of the film are sharp and can cause cuts and injuries. Protective equipment should be used during use. Before handling molten material, wear protective gloves. Move it off the floor immediately as slippery material can cause falls and accidents. Check that the grounding of all equipment in the place where the material is working is done correctly. If there is a risk of fire where the material is located, remove personnel and report a fire immediately. Personnel who will respond to the fire should wear suitable heat-resistant protective clothing. Avoid breathing mists and vapor. Keep people who do not take protective measures away. Wear full protective goggles in dusty environments.

6.2. Environmental Precautions

Do not allow material to enter drains and surface waters. Collect the material for recovery and send it to recovery facilities. If recycling is not possible, dispose of it according to the methods described in Section 13 "Disposal Information". Notify the environmental agency.

6.3 Methods and material for containment and cleaning up

It should be stored in its original package at ambient conditions (25 °C, 50% relative humidity). The material should be away from heat sources in the stock environment, static electricity should be prevented. If stocking is to be done on the shelf arrangement, fixing should be done. The film on the floor can cause slips. This material, which is on the floor and may cause falls, should be removed from the environment by sweeping. Dispose of waste product in accordance with local and national laws/regulations.

6.4. Reference to other sections

See section 4.

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SECTION 7. HANDLING AND STORAGE
7.1. Precautions for safe handling

Precautions should be taken against the possibility of the rolls falling and overturning. Protective work shoes and other protective clothing should be worn during roll lowering and lifting. When transporting the rolls on the pallet, make sure that there are supporting wedges on both sides. Do not roll the rolls from one place to another. For this, the rolls must be transported by forklift, fixed on the pallet with wedges and strips. Precautions should be taken against static electricity and dusting. Rolls of film wrapped with cling film (or similar) should be unrolled away from a solvent, chemical or similar potential source of ignition and outside the process area.

7.2. Conditions for safe storage, including any in compatibilities

Store in dry, dust-free area and on the pallets. Keep away from sunlight. Ventilation must be supplied in existence of melting processes. Use proper grounding procedures to avoid static electric. Storage area should be equipped with appropriate extinguishing capability (e.g. sprinkler system, portable fire extinguishers, flammable gas detectors).

7.3. Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
8.1. Control parameters

Eyewash and safety shower should be nearby and ready for use. In case of failure of process equipment, safety showers and eye washes should be located close to the chemical exposure area. Use in a well-ventilated area.

Exposure limits / standards

This mixture contains exposure values for the following ingredients in pure form:

There is no specific control limit for PP. However, the dust concentration limit of non-toxic substances that can be found in the air is 10 mg/m³, and this is the limit value given for the total dust in the environment.

Exposure Limits	ACGIH
Polypropylene	simple suffocating
PP Terpolymer	simple suffocating

Exposure Limits	ACGIH TWA/STEL	OSHA PEL/STEL
Calcium Carbonate	10 mg/m ³	0,5 mg/m ³ (respirable fraction)
Titanium Dioxide	1 mg/m ³	15 mg/m ³ (total dust)
Aluminum	1 mg/m ³ (respirable fraction)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

8.2. Exposure controls
8.2.1 Appropriate engineering control

Not information available

8.2.2. Personal Protection equipment

There should be a ready-to-use safety and eyewash nearby. Do not drink, eat or smoke where the material is handled. Film layers can create slipperiness on the floor. This must be gained in the habit of being careful all over the floor.

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8.2.2.1. Eye and Face Protection

Safety glasses is recommended. Eyewash fountains and safety showers should be easily accessible.

8.2.2.2. Skin/Hand/Feet Protection

Protective shoes, gloves and clothes are recommended. Do not eat, drink or smoke in areas where this material is handled. If there is a risk of contact with hot molten material, wear safety shoes, protective gloves and protective clothing with heat insulation and protection against chemicals.

8.2.2.3. Respiratory Protection

Where there is a risk of exposure to dust, steam and smoke may be generated by thermal decomposition of the material. In this case, a suitable ventilation system should be established in the area where the coating unit is located and in the working area. Thermal degradation of PVDC in PVDC coated films releases HCl gas. In case of exposure above the specified standards, a respiratory protection program in accordance with the 1910.134 OSHA General Industry Standard should be applied. If vapors are detected, use MSHA/NIOSH-accepted full-face respirator.

8.2.3. Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance	PP film
b) Color	Transparent or metallized.
c) Odor	Odorless
d) Odour Threshold	Not Applicable
e) Boiling Point Range	Not Applicable
f) Melting Point Range	from 160 to 165 °C
g) Density (20°C)	550-1000 kg/m ³
h) Vapor Pressure (20°C de hPa)	Not Applicable
i) Explosion Limits (in air)	Not Applicable
j) Solubility (20°C de (mg/l))	Not soluble in water

9.2. Other information

No information available.

10. STABILITY & REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

This product is stable under normal conditions of use.

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10.3. Possibility of hazardous reactions

May react with strong oxidants and strong acids. Use of the material can generate electrical charges and sparks that can ignite other combustible materials. In PVDC coated films, the products of thermal degradation are HCl, CO, and C particles.

10.4. Conditions to avoid

Heat, sparks, flames are sources that should be avoided. Contact or proximity to flame or spark should be avoided. It should not be heated to temperatures exceeding 235°C. Do not allow dust formation in the working place. Prevent static electricity, make grounding. Strong static electricity may occur during the roll film processing, do not allow dust and explosive air mixtures to form in the working area.

10.5. Incompatible materials

Fluorinated and oxygenated compounds. Avoid storage or contact with strong oxidizing agents, strong acids and alkalis.

10.6. Hazardous decomposition products

Hazardous polymerization will not occur. Carbon Monoxide, Carbon Dioxide, selected alkenes and aldehydes including acrolein and formaldehyde can be formed in negligible amount.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

It contains the toxicity values of the following components in pure form in this mixture. The product has not been tested. The information given is derived from the properties of the individual components.

Toxicity	Inhalation LC 50	Dermal LD 50	Oral LD 50
Polypropylene	Not available	Not available	>8 g/kg (Rat)
PP Terpolymer	Not available	Not available	>8 g/kg (Rat)
Calcium Carbonate	Not available	Not available	>5000 mg/Kg (Rat)
Titanium Dioxide	Not available	Not available	>5000 mg/Kg (Rat)
Aluminum	Not available	Not available	Not available

Chronic Toxicity

Based on our experience and available information, no harmful health effects are expected if the product is used as recommended, with appropriate precautions for the identified uses. Emissions at high temperatures can damage the respiratory organs.

Chronic Toxicity - Carcinogenic Effects

Titanium Dioxide* (13463-67-7); IARC Classification: Group 2B – Possibly Carcinogenic to humans. NIOSH considers the substance Titanium Dioxide to be a Potential occupational carcinogenic.

(a) Eye contact:

No specific data.

(b) Skin contact

No specific data

(c) Inhalation

No specific data

(d) Ingestion

No specific data

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12. ECOLOGICAL INFORMATION

12.1. Toxicity

There is no evidence report that the material has environmental risk.

12.2. Persistence and degradability

Very low level UV deterioration.

12.3. Bioaccumulative potential

This material is not expected to be readily biodegradable.

12.4. Mobility of Soil

Not available

12.5. Result of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No information available

12.7. Additional information

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste product

It can be recycled. If recycling is not possible, waste must be disposed of in accordance with national and regional control regulations. It should not be attempted to be disposed of by incineration in an uncontrolled manner. The same procedure applies to contaminated packing waste.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number

UN Number Not applicable

14.2. UN Proper Shipping Name

Shipping Name Not applicable

14.3./14.4. /14.5. Transport Hazard Class(es)/Packing Group/Environmental Hazards

ADR/RID/ADNR Regulation It is not classified as hazardous substance in under current transportation regulation

IMDG (Marine Transportation) It is not classified as hazardous substance in under current transportation regulation

ICAO/IATA It is not classified as hazardous substance in under current transportation regulation

14.6. Special Precautions for User

Not required

14.7. Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code

Not applicable

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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Classification and Labeling According to regulation EU CLP 2008 (1272/2008/EC)

EU regulation Classification and labeling have been determined according to EU Directive 67/548/EEC, 1999/45/EC (including amendments) and (EC) No. 1907/2006 Regulation take into account the intended product use.

SECTION 16. OTHER INFORMATION

OSHA	Occupational Safety Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
IMO	International Maritime Organization
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)

Legal Warning

All information contained in this safety data sheet has been prepared based on the best of our experience, knowledge and reliable sources available at the time of preparation. While meticulous attention is paid to the accuracy of the information, there is no guarantee of the perfection or accuracy of the information contained in this document. The advice contained in this document may not be adequate for all individuals and/or situations. It is the responsibility of the users to evaluate the product, to use it safely and to comply with the laws and regulations regarding the issues related to this use. The wording used in this document shall not be considered an authorization, recommendation, or license for work performed without a valid license. Polinas Plastik San. ve Tic. Inc. will not be held responsible.
