

MATERIAL SAFETY DATA SHEET



SECTION 1. PRODUCT IDENTIFICATION:

Product Name:	Biaxially Oriented Polypropylene (BOPP) Film - Metallized		
Chemical Name:	Polypropylene	Chemical Formula:	(C ₃ H ₆) _n
Chemical Classification:	Polyolefin	Unique reference numbers(s):	N/A
Intended Use:	Packaging Materials and Associated Applications		

MANUFACTURER IDENTIFICATION:

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Name	%	CAS No.
Polypropylene HP	90	9003-07-0
Polypropylene CP	05	9010-79-1
PP Terpolymers	05	25895-47-0
Aluminum	< 0.02	7429-90-5

SECTION 3. HAZARDS IDENTIFICATION:

Reactive Material:	Non-reactive in normal atmospheric condition
Corrosive Material:	No
Explosive Material:	No
Flammable Material:	No
Toxic Material:	No

SECTION 4. FIRST AID MEASURES:

Skin Contact	In case of contact with hot molten material, quickly cool affected skin area with plenty of water. Do not attempt to remove congealed product from skin.
Eye Contact	Rinse cautiously with water for several minutes. If eye irritations persist, get medical advice / attention immediately.
Inhalation	In case of adverse exposure to vapors at elevated temperatures, remove the affected person into fresh air and keep warm and at rest. If difficulty in breathing occurs, administer artificial respiration and get medical advice/attention immediately.

SECTION 5. FIRE FIGHTING MEASURES:

Suitable Extinguish Media	Water spray. Dry extinguishing powder. Foam. Carbon dioxide (CO ₂).
Hazardous Combustion Products	Smoke, Fume, Incomplete combustion products, Oxides of carbon (CO ₂ , CO), Nitrogen oxides. The fire products are irritant and toxic.
Precautions in Converting and Packaging Machine	The product is slow combustible and generates static charge; such charges are created more readily at low humidity, which may cause source of ignition in presence of inflammable materials, vapor or gases. It is recommended that antistatic precautions should be taken to reduce electric shock to operators and ignition of solvent vapors. The fitting of antistatic devices to packaging and converting machinery will not only reduce these hazards but will contribute to significant improvements in operating efficiency.

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Advice for Fire Fighters Instruction	Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.
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SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	Films are slippery in nature, which can cause accidental slippage of steps on moving on the film; therefore it should not be allowed to lay on floors recover the spilled material by sweeping and dispose safely in accordance with local and national regulations. In most of the processes where there is a movement of film over metal roller, static electrical charges developed on the film which may provide source of ignition to flammable vapors and gases or may give static shock to operator.
Personal Protective Equipment	Use thermal resistant gloves, safety glasses or goggles, protective clothing, non slip safety shoes. Pallet strapping is under tension. When cut, it will have sharp corners and may spring back. Eye protection is recommended for operators when cutting such strapping.

SECTION 7. HANDLING AND STORAGE:

Precautions for Safe Handling	BOPP film rolls and pallets are heavy and should be moved only with equipment designed for the purpose. Operators handling film should wear safety shoes and helmet.
Storage Condition	Store in well ventilated place away from heat, source of ignition and incompatible materials. Tend to accumulate static charge. Biaxially oriented polypropylene (BOPP) film aged with time and will exhibit deterioration of properties if it is not stored in a dry environment at a temperature 30 °C or below. It is recommended to use recommended storage condition and consume product before 6 months from date of production. The film should be kept in its original wrapping until it is used and should be kept at room temperature 24 hours prior to processing.

SECTION 8. EXPOSURE CONTROLS:

Eye Protection	When the splashing of hot molten material may occur, wear safety goggles/face protection.
Hand Protection	Wear suitable gloves when handling Biaxially oriented polypropylene (BOPP) film at high temperature.
Skin and Body Protection	Only wear fitting, comfortable and clean protective clothing and heat- insulating and chemical-proof gloves and face protection when handling Bi- axially oriented polypropylene (BOPP) film at high temperature.
Leg Protection	Wear safety shoes when handling Biaxially oriented polypropylene (BOPP) film heavy rolls.
Respiratory Protection	In case of risk of exposure to dust, vapor or fumes generated by thermal decomposition of the material, it is recommended that a local exhaust system is placed above the converting equipment and the working area must be properly ventilated.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Metallized BOPP Film
Physical State at 20 °C	Solid
Color	Metallic luster
Odor	Odorless
pH	N/A
Solubility in Water (at 20°C)	Insoluble
Solubility in other liquid	Soluble in hot aromatic, chlorinated solvents
Melting Point / Range(°C)	160 - 171
Boiling Point / Range(°C):	N/A
Specific Gravity (at 20°C) (water = 1)	0.62 - 0.96
Flash point	N/A
Flammability	Flammable
Flame Characteristics	Burns with blue base yellow tip flame and drips
Vapor pressure	N/A
Relative vapor density at 20 °C	N/A
Explosive properties	N/A
Wettability (ASTM D 2578)	For untreated film surface: 29 – 30 dynes/cm
Surface Energy	For treated film surface: min 38 dynes/cm

SECTION 10. STABILITY AND REACTIVITY:

Stability	The material is stable under normal storage, handling and operating conditions.
Hazardous Reactions	The material is combustible if exposed to flames. Handling of material may create electrical charges and sparks which may be a cause of ignition of other flammable materials.
Hazardous Decomposition Products	In case of fire, Carbon monoxide and Carbon dioxide may be generated.
Incompatibility with other Materials	Chlorine, fuming acid and other strong oxidizing agents.
Reactivity	Non reactive in normal atmospheric condition with acid, base & oils.
Conditions to Avoid	To be stored below 30 °C temperature and at high temperature and high humidity causes reduction in treatment level for treated film.
Thermal Decomposition Temperature	300 °C

SECTION 11. TOXICOLOGICAL INFORMATION:

Inhalation	Fumes and vapors produced by heated or burned material may be irritating for the respiratory tract. Remove the affected person into fresh air and keep warm and at rest. Get medical advice/attention immediately.
Skin Contact	No evidence of irritant effect from normal handling and use.
Eye Contact	Sharp cut pieces may cause eye damage.
Ingestion	Highly unlikely under normal use.
Long Term Exposure	No evidence of any adverse effect from normal exposure.

SECTION 12. ECOLOGICAL INFORMATION:

Biodegradability	Product is biologically inert and non-degradable.
Ingestion	Ingestion of BOPP film may cause harm to wildlife. Avoid dissemination in the environment.

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SECTION 13. DISPOSAL CONSIDERATIONS:

Waste Treatment Methods	Dispose safely in accordance with local and national regulations. Recover/recycle for reuse if possible. If not possible, then send the product to an authorized industrial waste incinerator or landfill.
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SECTION 14. PACKAGING AND TRANSPORT INFORMATION:

Type of Packing	Big size rolls in "Pallet Packing" Small size rolls in "Corrugated Box Packing"
Transport Information	Not classified as dangerous for transport
Road/Rail (ADR/RID)	Not restricted for transportation
Marine (IMO/IMDG)	Not restricted for transportation
Air (ICAO/IATA)	Not restricted for transportation

SECTION 15. REGULATORY INFORMATION:

EC Classification	None
EC Symbol	None
Risk Phrases	None Required
Safety Phrases	None Required

Not classified as dangerous for supply/use.

Food Contact Status	Gulf Pack BOPP films comply with the EU Regulation 10/2011, with amendments up to 2015/174 and USA FDA Code of federal regulations CFR21 section 177.1520 (c) 1.1 and is suitable for use in packaging, transporting or holding foods.
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SECTION 16. OTHER INFORMATION:

The information set forth in this material safety data sheet is believed to be correct and reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the user / distributor to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be and to be in accordance with applicable Federal, state, and local laws and regulation. In no event will the company/manufacture be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information.

Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), amending Annex XVII by Commission Regulation (EU) No. 1272/2013

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