

## Material Safety Data Sheet

### Sarafil BOPP film

#### 1. Product and Company Identification:

**Product Details:**

**Trade Name :** Sarafil Biaxially oriented PolyPropylene film (BOPP film)

**Use/Applications:** Flexible Packaging, Food packaging, Decorative and Industrial uses

**Manufacturer details:**

**Global / India:**

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#### 2. PRODUCT SPECIFICATION/COMPOSITION

PolyPropylene Base Polymer > 95% CAS NO: 9003-07-0, 15895-47-0

Additives < 5%

(Polypropylene and its Copolymer/Terpolymer)

#### 3. HAZARDS IDENTIFICATION

- No classification required (no dangerous properties)
- No hazardous reactions known under normal atmospheric conditions
- **Hazardous combustion products:** Thermal decomposition or combustion may liberate toxic and/or corrosive gases or fumes
- **Thermal hazards:** Wear appropriate thermal protective clothing, when necessary
- **Ingestion:** The materials are biologically inert. Under normal conditions of intended use, this material does not pose a risk to health.
- **Environmental Impact :** Non biodegradable, non compostable.

**Physico-Chemical Hazards:**

The material is combustible if exposed to flames. Handling of material may create electrical Charges and sparks which may be a cause of ignition for other flammable materials.

#### 4. FIRST AID MEASURES

##### **Inhalation**

Fumes and vapors produced by heated or burned material may be irritating for the respiratory tract. Bring patient into fresh air. Get medical advice if the symptoms continue.

##### **Skin Contact**

Exposure to hot molten material.

Treat the affected part with cold water. No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material. Injured areas should be treated as burns.

##### **Eye Contact**

Exposure to hot molten material.

Treat the part with cold water. Seek immediately special treatment at hospital or medical center. In case of irritation caused by vapors/fumes; wash with copious volumes of water, and seek medical advice..

#### 5. FIRE-FIGHTING MEASURES

##### **Suitable extinguishing media**

Foam

Halon

Carbon dioxide

Water spray (mist) only to cool the surface exposed to the fire

##### **Exposure Hazards**

Complete combustion with an excess of oxygen forms; CO<sub>2</sub> and water vapor.

Partial combustion forms also; CO, fumes and vapors irritating to the respiratory tract.

**Protective equipment for fire-fighting:** Wear a breathing apparatus

#### 6. ACCIDENTAL RELEASE MEASURES

BOPP film on the floor can cause slipping

After spillage should recover the spilled material by sweeping and dispose of it.

**On soil :** Dispose safely in accordance with local and national regulations.

**On water :** If the material has been discharged into a water stream, inform the authorities of the possible presence of floating debris.

#### 7. HANDLING AND STORAGE

Prevention of fire and explosions

Take measures to avoid electrostatic charges, sufficient static electricity removal system must be in place during processing and use of the film, all such static electricity removal system should be grounded as per standard norms.

Keep away from ignition sources

Observe the general rules of industrial fire protection

Hand gloves are recommended for handling the film. The material is non volatile no specific ventilation is required. Avoid skin contact with sharp film edges.

##### **Storage Conditions:**

- Store at ambient temperature and humidity (preferably 25 °C, 50% relative humidity) in original packaging
- Store away from heating sources

- Shelf life of Plain film is 6 Months
- Avoid static electricity buildup
- When pallets are stored in racks, it should be checked whether the pallets fit the racks.

## 8. EXPOSURE LIMITATION AND PERSONAL PROTECTION

### Occupational Exposure Control

Standard usage conditions of material do not generate the formation of dust particles.

### 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 (hood) and the working area must be properly ventilated.

### Skin and Body Protection

If contact with hot molten material is possible, wear heat-insulating and chemical-proof gloves and clothes as well as a face shield.

### Eye Protection

It is recommended to use safety goggles as good industrial practices.

### Other Personal Protection

Slabs of film on the floor can be slippery. Exercise due care in areas when spillage occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	: Film
Colour	: Clear transparent
Odour	: Odourless

### Data relevant to safety

Change in physical state	: Softening point > 185 deg centigrade
Ignition Temperature	: >380 deg centigrade
Lower explosion limit	: not applicable
Higher explosion limit	: not applicable
Density	: 0.850-0.95 g/cm <sup>3</sup>
Solubility in water	: Insoluble
Solubility in organic solvents	: Insoluble at 20 deg centigrade
Melting Range	: 160-165 deg centigrade
Flash Temperature	: 350 deg centigrade
Specific heat (KJ/Kg)	: 1.34 at 25 deg centigrade
Thermal conductivity(W/Mk)	: 0.12
Volatile Content	: Negligible

## 10. STABILITY AND REACTIVITY

Stability at Room Temperature	: The material is stable under normal storage, handling and operating conditions (up to 45 deg centigrade)
Thermal decomposition	: >>349 deg centigrade
Hazardous Reaction	: 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.

<p><b>Condition to Avoid</b> and</p>	<p>: Avoid contact with strong oxidizing materials  Fluorine. Avoid proximity or contact with flames or sparks. Do not heat to temperatures exceeding 235 deg Centigrade.</p>
<p><b>11. TOXICOLOGICAL INFORMATION</b></p>	
<p>The material is biologically inert and not harmful. Fumes and vapors produced by heated or burned material may be irritating for the respiratory tract. Bring patient into fresh air. Get medical advice if the symptoms continue. The contact with the hot molten material may cause severe thermal burns. At best of the present knowledge, the material is not Genotoxic, Carcinogenic or harmful for reproduction.</p>	
<p><b>12. ECOLOGICAL INFORMATION</b></p>	
<p>Films are not biodegradable. Avoid dissemination in the environment.</p>	
<p><b>13. DISPOSAL CONSIDERATIONS</b></p>	
<p>Always dispose of in accordance to local regulations. The material can be disposed or in the following ways.</p> <ul style="list-style-type: none"> <li>• Landfill</li> <li>• Incineration (Thermal recovery)</li> <li>• Recycling (Reprocessing)</li> </ul> <p>Society of Plastic Industry Code (SPI Code) : 5 PP, Polypropylene</p>	
<p><b>14. TRANSPORT INFORMATION</b></p>	
<p>UN Number:           Not applicable Road / Rail:           Not restricted for transportation. Marine                 Not restricted for transportation. Air                       Not restricted for transportation.</p>	
<p><b>15. REGULATORY INFORMATION</b></p>	
<p>Clean Air Act Status: This product does not contain and is not produced with ozone depleting chemicals as defined in 58 FR 8136, February 11, 1993 EC Symbol: Not classified according to EEC directives 67/548/EEC (dangerous substances) and 1999/45/EC (dangerous preparations).</p>	
<p><b>16. OTHER INFORMATION</b></p>	
<p><b>Recommended restrictions on use:</b> This safety data sheet is provided for the products and their applications as specified in Section 1. The safety data sheet is not written with the individual end-user in mind. It is recommended that supplementary information be requested if an unusual application of these products is intended. Consult the manufacturer if the product(s) is to be used for special applications (such as, but not limited to, the food, hygienic, medical or surgical sectors) or for new end-uses.</p> <p><b>Medical use:</b> Do not use in medical applications involving permanent implementations in human Body.</p> <p><b>Disclaimer:</b> This material safety data sheet and the health, safety and environmental information furnished herein are intended to provide a summary of our knowledge and guidance regarding use of the designated product. Its contents are offered in good faith as accurate and complete as of the date specified below, but without guarantee. It relates only to the product and does not relate to its use in combination with any other product or material or in any process. Local laws and regulations and conditions of use and suitability of the product for particular uses are beyond the control of Polyplex; all risks of use, storage, handling, transportation and disposal of the product are</p>	

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