

1. CHEMICAL PRODUCT/ COMPANY IDENTIFICATION

Product Name	PETLAR™ is a registered trademark of polyester films produced by SRF Ltd.
Scope	All PETLAR[™] in the range (8µ-100µ) including plain and metallized films.
Company Name	SRF LIMITED CORPORATE OFFICE Block - C, Sector - 45, Gurgaon - 122 003, Haryana, India. MANUFACTURING LOCATIONS:
	 SRF Industries (Thailand) Ltd. 112 MOO 3, Tasith, Pluakdeang, Rayong 21140, Thailand. Tel: +66 -33-010983/4/5/6/7 Fax no :+66 -33-010988

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS Number	%
Base Film: Polyethylene Terephthalate	25038-59-9	>99
Silica	7631-86-9	<1.0

3. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Sheet-shaped solid
Boiling point	None



Melting point	256°C
Vapour pressure	0 Pa
Volatility	Non volatile
Specific gravity	1.395 g/cm ³
Solubility in water	Insoluble

4. HAZARDS IDENTIFICATION

Overview	Appearance: Solid film
	Odour: Odourless
	Unlikely to cause health hazards at ambient temperature.
Fire Hazard	None but static charge eliminators are required on printing & lamination machine to avoid fire during processing.
Smoke Hazard	At process temperatures exceeding 300°C, material is likely to degrade thereby releasing small amount of ester & carboxylic acid.
Potential health effects	High temperature operations using PETLAR[™] films can produce fumes or vapours of decomposition products of polyethylene terephthalate polymer. The type and quantity of the fumes or vapours will vary based on temperature, time and other variables. These fumes or vapours may cause eye, nose, throat or respiratory irritation, or other effects such as headache. Molten polymer can cause thermal burns.

5. FIRST AID MEASURES

Inhalation	No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. However, if exposed to fumes from overheating or combustion immediately seek fresh air. If unable to breathe then the person should be given artificial respiration. Consult a physician if necessary.
Skin contact	The compound is not likely to be hazardous by skin contact but cleansing of the skin after use is advisable. If molten material comes in contact with skin then use cold water to cool off rapidly. Don't attempt to remove material from skin. Obtain medical treatment for any thermal burns.
Eye contact	If contact lenses are worn then immediately remove the lenses at once. Rinse the eyes thoroughly with plenty of water. Prolonged eye irritation may occur



	from pieces of debris sticking to the eyeball or eyelids. Seek medical attention if required.
Ingestion	Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician immediately.

6.FIRE FIGHTING MEASURES

Flammable properties	Non-metalized films can be combusted only by remaining in contact with flame. If flame source is stationary, metalized films will shrink away and thereby get self-extinguish. If non-metalized film remains in contact with the flame, it can continue to burn slowly thereby dropping flaming liquid which can spread the fire. Metalized films may support combustion if ignited. Hazardous gases/vapours produced in fire are carbon dioxide, carbon monoxide, organic acids, aldehydes & alcohols. During processing, film may pick up a strong static charge. Avoid discharge into dust or solvent laden air as a flash fire or explosion may result.
Extinguishing Media	Water, foam, dry chemical and carbon dioxide.
Firefighting instructions	Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

7.ACCIDENT RELEASE MEASURES

Use appropriate personal protective equipment during clean up. Scrap films should be swept away and

disposed off properly.

8.HANDLING AND STORAGE

Handling	Avoid skin contact with sharp film edges.
	• The film rolls are to be handled with proper trolley to avoid surface, side damage, telescoping of rolls.



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MATERIAL SAFETY DATA SHEET

•	While cutting the strapping on containers or pallets, considerable precautions should be taken. It should be at a proper distance from the eye, so that while cutting, it may not fall back and hurt the person or the eyes.
•	The Operator handling the film should wear safety shoes. These precautions shall also improve operational efficiency and lead to the longer life of machinery.

	Rolled film should be stored at intended processing temperature for approximately 24 hours prior to use. Plastic packaging materials can pick up static charge. Polyester film rolls packaged with shrink-wrap (or other plastic overwrap) should be opened or unwrapped only in non-process areas where ignition sources such as solvents are not in use or in storage.
Shelf Life/Storage	 Metallised film is suitable for use within 6 months and Transparent film within 1 year, from the date of manufacturing under below mentioned conditions: The storage conditions for PETLAR[™] polyester film should be observed to avoid higher temperatures and humidity variations. The recommended temperature range is 24°C to 35°C, with relative humidity of 55 – 60%. The material should be stored in a covered area. The material is sensitive to dust and hence should be stored in a dust free area. Don't keep rolls of film in contact with ground to avoid surface damage. The film should be kept in its original wrapping in the storage location with all packaging such as end fitment, core plug, over wrap & stretch wrap film (if applied), intact with the roll, until it is used and should be kept at room temperature for 24 hrs, prior to processing. Proper equipment should be used by operators for handling heavy rolls. It is recommended that the film should not get exposed to direct Sunlight and water / moisture. The film can get oxidized in contact with moisture or water, forming white metal oxide.

9. EXPOSURE CONTROL/ PERSONAL PROTECTION

Engineering controls	General exhaust is acceptable except where overheating can occur during
	processing. High temperature operations may require use of local exhaust
	ventilation to keep employee exposure below recommended limits. Movement
	of film over metal or rollers will produce a surface static charge on the film.
	Consider processing design and procedures that will reduce or dissipate this



	charge, and eliminate the possibility of unwanted electrical discharge to people, equipment and materials
Personal protection	 Wear safety glasses/ face protectors to protect eyes Respirators are not needed for normal use.
	 If there is potential for contact with hot/molten material, wear heat resistant impervious clothing and footwear which is not required for normal use. Gloves are recommended as good industrial practice.

10. STABILITY & REACTIVITY

- Stable at normal temperatures and storage conditions.
- Strong acids and bases may hydrolyse the film. Avoid contact with strong oxidizing agents.
- Combustion can produce carbon oxides and hydrocarbon, oxidation products, including organic acids, aldehydes, alcohols, ketones and acrolein.
- Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Toxic Effect	Polyethylene Terephthalate - Oral ALD: > 10,000 mg/kg in rats. Polyethylene
	Terephthalate is not a skin irritant, but is a mild eye irritant. Toxic effects from
	short exposures by inhalation or by ingestion do not result in any adverse
	effects.

12. ECOLOGICAL INFORMATION

Ecological Information	No information is available. However, toxicity is expected to be low based on insolubility in water

13. DISPOSAL CONSIDERATIONS

Disposal considerations	The poly film, HDPE end plug, polyester straps, wooden end fitments and
	pallets used for packing can be disposed by incineration with energy recovery.
	The high fuel value of this product makes it very desirable for material that
	cannot be recycled in accordance with local requirements.

14. TRANSPORTATION INFORMATION

Transportation	Non-hazardous and safe for road, sea and airfreight.
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15. REGULATORY INFORMATION	
Ozone depleting chemicals	This product does not contain, and is not manufactured with ozone depleting chemicals.
16. OTHER INFORMATION	

Issue Number:	6
Issue Date:	1 st Nov 2018
Effective Date:	1 st Nov 2018
Changes to Issue:	Updated

END USER'S RESPONSIBILITY

Each user should read this information properly and comprehend and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

For further information please contact:

SRF Limited Packaging Films Business Block - C, sector - 45, Gurgaon - 122 003, Haryana, India. Tel: +91-124-4354400; Fax: +91-1244354600 E-Mail ID: pfbfilms@srf.com; Web: www.srf.com

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