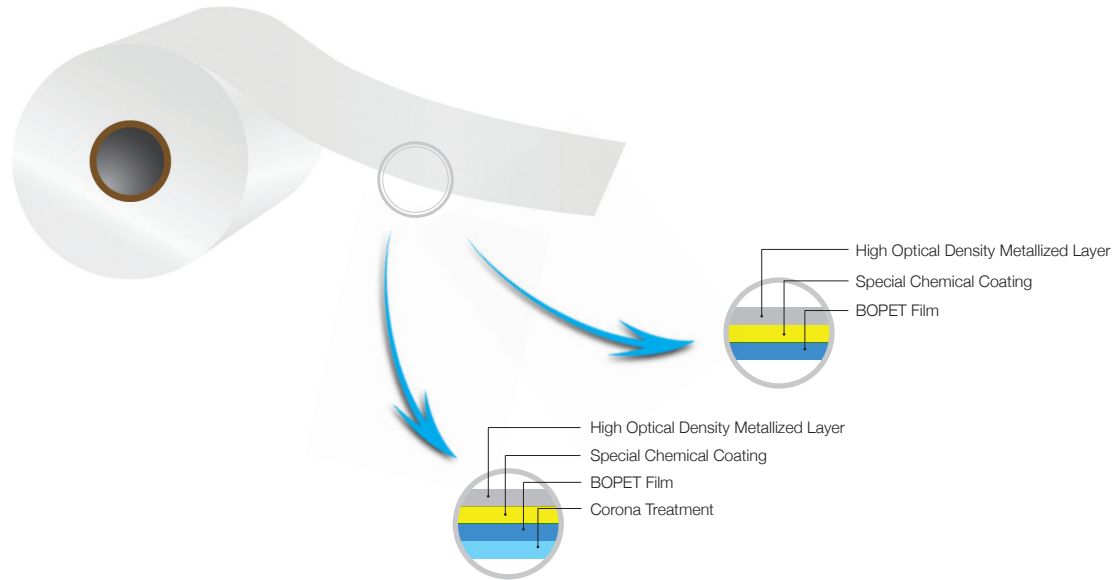


# Special Chemical Coated High Barrier Metallized Polyester Film

# PETLAR-PSM

PETLAR-PSM is a Biaxially Oriented Vacuum Metallized Polyester Film with excellent barrier and high gloss properties. The base film used is one side special chemical coated polyester film to enhance metal adhesion to the film. High optical density metallization is done on special chemical coated side of base film to provide superior barrier properties to the flexible laminate. This film is available in various variants as illustrated. The film possesses good mechanical, surface & thermal properties and ensures excellent processability.

PETLAR-PSM grade conforms latest EC directives, REACH specifications and US FDA regulations for food contact applications. This grade is available in thickness range of 8 to 75 Microns (32-300 Gauge).



## APPLICATIONS

- Flexible Packaging  
*Printing, Coating, Lamination*
- Hot Filled Applications e.g. Tomato Ketchup, Juices, etc
- Frozen Food Packaging
- Cosmetics & personal care products

Standard Roll Presentation - 6 Inch / 152 mm Core Diameter									
Thickness (Micron)		8	10	12	23	36	50	75	Approx Outer Roll Diameter (mm)
Length (Meters)	3000						495	590	
	6000				475	570	675	810	
	9000				560	700			
	12000				650	795			
	18000	485	535	580					
	24000	550	610	660					
	36000	660	735	795					
	42000		800	850					
Width Range		400-2500 mm / 15-99 Inch							
<i>Customised specs also available on request</i>									

Standard Roll Presentation - 3 Inch / 76 mm Core Diameter							
Thickness (Micron)		10	12	23	36	50	Approx Outer Roll Diameter (mm)
Length (Meters)	3000				400	460	
	6000			450			
	9000	370	400	545			
	12000	425	455				
	18000	515	560				
Width Range		400-1500 mm / 15-59 Inch					
<i>Customised specs also available on request</i>							

## SRF Limited, Packaging Films Business

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**Kashipur:** Plot No -12, Rampura, Ramnagar Road, Kashipur-244713, Distt. Udham Singh Nagar, Uttaranchal, India.

**Rayong:** D-20, Hemraj Eastern Seaboard Industrial Estate, 112, M003, Tambon Tasith, Amphur Pluakdaeng, Rayong Province 21140, Thailand.



# Special Chemical Coated High Barrier Metallized Polyester Film

# PETLAR-PSM

Properties	Unit	Test Method	Product Code										
			PSM0080	PSM0090	PSM0100	PSM0110	PSM0120	PSM0150	PSM0190	PSM0230	PSM0300	PSM0360	
<b>GENERAL</b>													
Nominal Thickness	Micron	SRF Method	08	09	10	11	12	15	19	23	30	36	
	Gauge		32	36	40	44	48	60	76	92	120	144	
Yield	m <sup>2</sup> /kg		90	80	72	65	60	48	38	31	24	20	
	in <sup>2</sup> /lb		63300	56300	50600	46000	42200	33700	26600	22000	16800	14000	
<b>MECHANICAL</b>													
Tensile Strength (min)	MD	ASTM D 882	kg/cm <sup>2</sup>	2000	2000	2000	2000	2000	2000	2000	1900	1900	1900
			kpsi	29	29	29	29	29	29	29	27	27	27
	TD		kg/cm <sup>2</sup>	2100	2100	2100	2100	2100	2100	2100	2000	2000	1900
			kpsi	30	30	30	30	30	30	30	29	29	27
Elongation at Break (min)	MD	ASTM D 882	%	110	110	110	110	110	110	110	120	120	125
	TD		%	100	100	100	100	100	100	100	110	110	115
<b>THERMAL</b>													
Shrinkage (150°C, 30 min)	MD	ASTM D 1204	%	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	TD		%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>OPTICAL, BARRIER &amp; METAL BOND STRENGTH</b>													
Optical Density*	-	SRF Method	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
WVTR (38°C & 90% RH)	gm/m <sup>2</sup> /day	ASTM F 1249	<0.9	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
	gm/100in <sup>2</sup> /day		<0.06	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
OTR (23°C & 0% RH)	cc/m <sup>2</sup> /day	ASTM D 3985	<0.9	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
	cc/100in <sup>2</sup> /day		<0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Metal Bond Strength	gm/25mm	SRF Method	800	800	800	800	800	800	800	800	800	800	
<b>OPTICAL, BARRIER &amp; METAL BOND STRENGTH</b>													
Optical Density*	-	SRF Method	-	-	-	-	3.0	3.0	3.0	3.0	3.0	3.0	
WVTR (38°C & 90% RH)	gm/m <sup>2</sup> /day	ASTM F 1249	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
	gm/100in <sup>2</sup> /day		-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
OTR (23°C & 0% RH)	cc/m <sup>2</sup> /day	ASTM D 3985	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	cc/100in <sup>2</sup> /day		-	-	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Metal Bond Strength	gm/25mm	SRF Method	-	-	-	-	800	800	800	800	800	800	

\* As measured on Tobias Densitometer | MD – Machine Direction | TD – Transverse Direction

Notes: 1) Metallized side is available wound inside/outside of the roll - customer to specify accordingly; 2) Metallization with Plasma Treatment for uniform and enhanced metal adhesion is available; 3) 3.0 OD not available in 08 & 09 Micron thickness; 4) Above properties can be modified to suit customer's requirement; 5) Unless otherwise specified, the values given above are nominal.

## DISCLAIMER

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