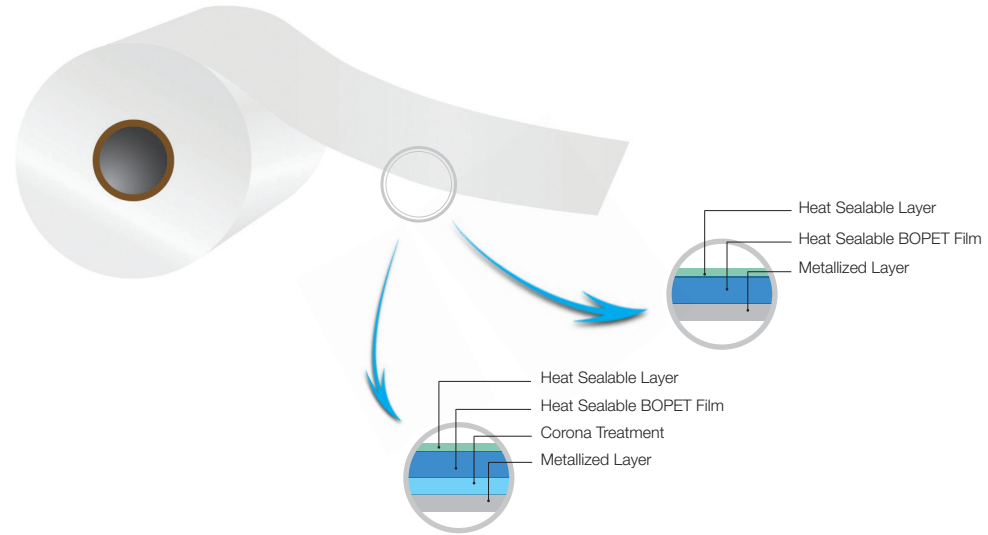


PETLAR-HSM is a Biaxially Oriented Vacuum Metallized Polyester Film with heat seal layer (co-extruded with specialty polymer) on one side. The modified surface provides excellent sealing to itself as well as other substrates such as A-PET, C-PET, PVDC and PVC but does not seal against PE, PS & PP. The film possesses good mechanical, surface & thermal properties and ensures excellent processability. PETLAR-HSM grade conforms latest EC directives, REACH specifications and US FDA regulations for food contact applications. This grade is available in thickness range of 12 to 36 Microns (48-144 Gauge).



## APPLICATIONS

- Products requiring high aroma barrier like mosquito mats, perfumed tissues, etc
- Single substrate sealing applications

Standard Roll Presentation - 6 Inch / 152 mm Core Diameter							
Thickness (Micron)		12	15	20	25	30	36
Length (Meters)	6000			450	475	540	570
	9000		470	540	560	650	700
	12000		540	615	650	740	795
	18000	580	645	749			
	24000	660	740				
	36000	795					
	42000	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)		12	15	20	25	30	36
Length (Meters)	3000						400
	6000			425	475	515	550
	9000	400	450	515	585		
	12000	455	515	590			
	18000	560					
Width Range		400-1500 mm / 15-59 Inch					
<i>Customised specs also available on request</i>							

## SRF Limited, Packaging Films Business

Block-C, Sector-45, Gurgaon-122003, Haryana, India Tel: (+91-124) 435 4400, Fax: (+91-124) 435 4500, pbfilms@srf.com, www.srf.com



**Indore:** Plot No C 1-8, C 21-30, Indore Special Economic Zone, Pithampur - 454775, Distt. Dhar, Madhya Pradesh, **India.**

**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.**



Typical values

Properties	Unit	Test Method	Product Code						
			HSM0120	HSM0150	HSM0200	HSM0250	HSM0300	HSM0360	
<b>GENERAL</b>									
Nominal Thickness	Micron Gauge	SRF Method	12 48	15 60	20 80	25 100	30 120	36 144	
Yield	m <sup>2</sup> /kg in <sup>2</sup> /lb		60 42200	48 33700	36 25200	29 20200	24 16800	20 14000	
<b>MECHANICAL</b>									
Tensile Strength (min)	MD	ASTM D 882	1800 26	1800 26	1800 26	1800 26	1800 26	1800 26	
	TD		1900 27	1900 27	1900 27	1900 27	1900 27	1900 27	
Elongation at Break (min)	MD	ASTM D 882	120	120	120	120	120	125	
	TD		110	110	110	110	110	115	
<b>SURFACE</b>									
Coefficient of Friction	Static	ASTM D 1894	0.50	0.50	0.50	0.45	0.45	0.45	
	Dynamic		0.45	0.45	0.45	0.40	0.40	0.40	
Surface Energy	Plain Side	ASTM D 2578	44	44	44	44	44	44	
	Corona Side		52+	52+	52+	52+	52+	52+	
	Acrylic Side		42	42	42	42	42	42	
<b>THERMAL</b>									
Shrinkage (150°C, 30 min)	MD	ASTM D 1204	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	
<b>OPTICAL &amp; BARRIER</b>									
Optical Density*	-	SRF Method	2.2	2.2	2.2	2.2	2.2	2.2	
WVTR (38°C & 90% RH)	gm/m <sup>2</sup> /day	ASTM F 1249	1.0	1.0	1.0	1.0	1.0	1.0	
	gm/100in <sup>2</sup> /day		0.06	0.06	0.06	0.06	0.06	0.06	
OTR (23°C & 0% RH)	cc/m <sup>2</sup> /day	ASTM D 3985	1.0	1.0	1.0	1.0	1.0	1.0	
	cc/100in <sup>2</sup> /day		0.06	0.06	0.06	0.06	0.06	0.06	
<b>HEAT SEAL STRENGTH</b>									
Seal Strength (120°C / 2.8 Bar / 2 Sec)	Sealable/Sealable Side	ASTM F 1249	400	450	500	550	600	650	

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

Notes: 1) Heat Sealable 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) Higher Optical Density available on request; 4) Above properties can be modified to suit customer's requirement; 5) Unless otherwise specified, the values given above are nominal.

## DISCLAIMER

The information contained herein is to be used only as a guideline for using PETLAR film. The specifications and characteristics mentioned are based on reliable test procedures. Users of this film should make independent assessment by their own for its suitability to their end use. SRF Ltd does not offer any guarantee on the results and does not accept any liability arising out of the use of the information contained herein.