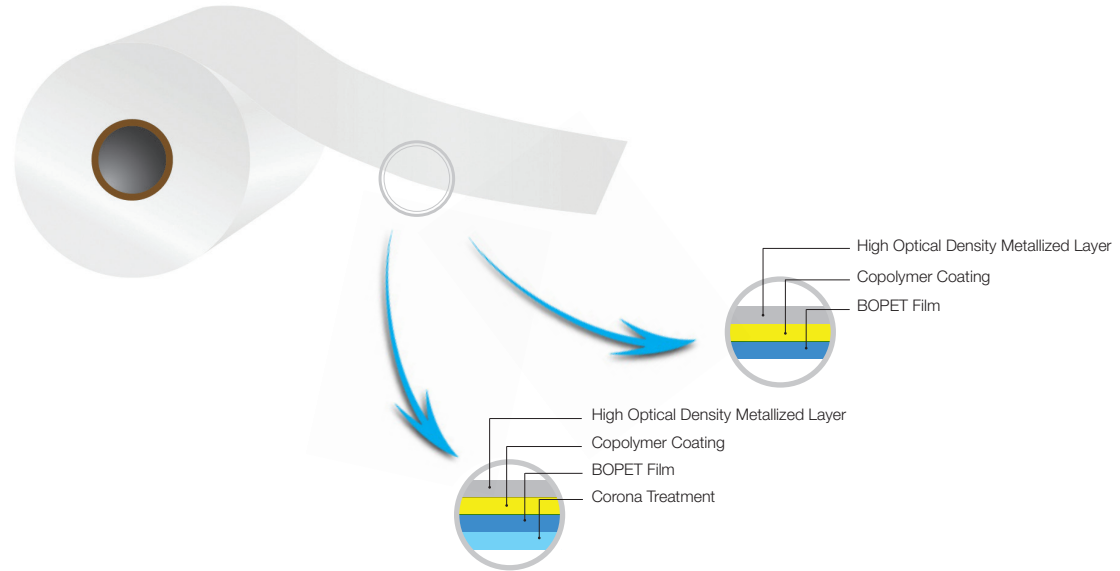


Copolymer Coated High Barrier Metallized Polyester Film

PETLAR-PCM

PETLAR-PCM grade is a Biaxially Oriented Vacuum Metallized Polyester Film with excellent barrier and high gloss properties. The base film used is one side copolymer coated polyester film to enhance metal adhesion to the film. High optical density metallization is done on copolymer 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-PCM grade conforms to latest EC directives, REACH specifications and US FDA regulations for food contact applications. This grade is available in a thickness range of 8 to 75 Microns (32-300 Gauge).



APPLICATIONS

- Flexible Packaging
Printing, Coating, Lamination

Standard Roll Presentation - 6 Inch / 152 mm Core Diameter									
Thickness (Micron)		8	10	12	23	36	50	75	
Length (Meters)	3000						495	590	Approx Outer Roll Diameter (mm)
	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							
Customised specs also available on request									

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

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



Copolymer Coated High Barrier Metallized Polyester Film

PETLAR-PCM

Typical values

Properties	Unit	Test Method	Product Code										
			PCM0080	PCM0090	PCM0100	PCM0110	PCM0120	PCM0150	PCM0190	PCM0230	PCM0300	PCM0360	
GENERAL													
Nominal Thickness	Micron Gauge	SRF Method	08	09	10	11	12	15	19	23	30	36	
			32	36	40	44	48	60	76	92	120	144	
Yield	m ² /kg	SRF Method	90	80	72	65	60	48	38	31	24	20	
	in ² /lb		63300	56300	50600	46000	42200	33700	26600	22000	16800	14000	
MECHANICAL													
Tensile Strength (min)	MD	kg/cm ²	2000	2000	2000	2000	2000	2000	2000	2000	1900	1900	1900
		kpsi	29	29	29	29	29	29	29	29	27	27	27
	TD	kg/cm ²	2100	2100	2100	2100	2100	2100	2100	2100	2000	2000	1900
		kpsi	30	30	30	30	30	30	30	30	29	29	27
Elongation at Break (min)	MD	%	110	110	110	110	110	110	110	110	120	120	125
	TD		100	100	100	100	100	100	100	100	110	110	115
THERMAL													
Shrinkage (150°C, 30 min)	MD	%	2.2	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	0.4
OPTICAL, BARRIER & METAL BOND STRENGTH													
Optical Density	-	SRF Method	2.8	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 ² /day	ASTM F 1249	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
	gm/100in ² /day		0.06	0.03	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 ² /day	ASTM D 3985	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	cc/100in ² /day		0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Metal Bond Strength	gm/25mm	SRF Method	650	650	650	650	650	650	650	650	650	650	
OPTICAL, BARRIER & METAL BOND STRENGTH													
Optical Density	-	SRF Method	-	-	-	-	3.0	3.0	3.0	3.0	3.0	3.0	3.0
WVTR (38°C & 90% RH)	gm/m ² /day	ASTM F 1249	-	-	-	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	gm/100in ² /day		-	-	-	-	0.02	0.02	0.02	0.02	0.02	0.02	0.02
OTR (23°C & 0% RH)	cc/m ² /day	ASTM D 3985	-	-	-	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	cc/100in ² /day		-	-	-	-	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Metal Bond Strength	gm/25mm	SRF Method	-	-	-	-	650	650	650	650	650	650	

* 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.

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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.