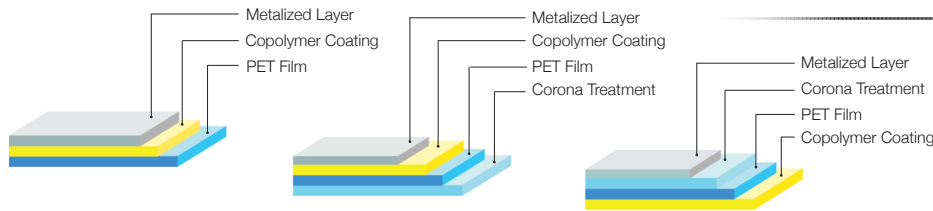


PETLAR PCM grade is a Biaxially Oriented Vacuum Metallized Polyester Film with excellent barrier and high gloss properties. The base film used is one side copolymer coated polyester film to enhance metal adhesion to the film. This film is available in various variants as illustrated. The film possesses good mechanical, surface & thermal properties and ensures excellent processability.

PETLAR PCM grade conforms to EC 10/2011 directives, REACH specifications and US FDA regulations for food contact applications. This grade is available in thickness range of 8 to 50 Microns (32-200 Gauge).

## APPLICATIONS

- Flexible Packaging  
*Printing, Coating, Lamination*



Properties	Unit	Test Method	Product Code					
			PCM0800	PCM0100	PCM0120	PCM0230	PCM0360	PCM0500
<b>GENERAL</b>								
Nominal Thickness	Micron	SRF Method	8	10	12	23	36	50
	Gauge		32	40	48	92	144	200
Yield	m <sup>2</sup> /kg in <sup>2</sup> /lb	SRF Method	90	71	60	30	20	14.3
			62200	49000	41400	20700	13800	9800
<b>MECHANICAL</b>								
Tensile Strength (min)		ASTM D 882						
MD	kg/cm <sup>2</sup> kpsi		1900 27	1900 27	1900 27	1900 27	1900 27	1900 27
TD	kg/cm <sup>2</sup> kpsi		1900 27	1900 27	1900 27	1900 27	1800 26	1800 26
Elongation at Break (min)		ASTM D 882						
MD	%		100	100	100	110	110	110
TD	%		90	90	90	100	100	
<b>SURFACE</b>								
Coefficient of Friction (base film)		ASTM D 1894						
Static	-		0.55	0.55	0.55	0.50	0.50	0.50
Dynamic	-		0.50	0.50	0.50	0.45	0.45	
Surface Energy (base film)		ASTM D 2578						
Copolymer Side	Dyne/cm		58+	58+	58+	58+	58+	58+
Plain Side			44	44	44	44	44	44
Corona Side			52+	52+	52+	52+	52+	52+
<b>THERMAL</b>								
Shrinkage (150°C, 30 min)		ASTM D 1204						
MD	%		2.20	2.20	2.20	2.20	2.20	2.20
TD	%		0.40	0.40	0.40	0.40	0.40	0.40
<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 gm/100in <sup>2</sup> /day	ASTM F 1249	<1.5 <0.09	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06
OTR (23°C & 0% RH)	cc/m <sup>2</sup> /day cc/100in <sup>2</sup> /day	ASTM D 3985	<1.5 <0.09	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06	<1.0 <0.06
<b>OPTICAL &amp; BARRIER</b>								
Optical Density	-	SRF Method	2.5	2.5	2.5	2.5	2.5	2.5
WVTR (38°C & 90% RH)	gm/m <sup>2</sup> /day gm/100in <sup>2</sup> /day	ASTM F 1249	<1.0 <0.06	<0.7 <0.04	<0.7 <0.04	<0.7 <0.04	<0.7 <0.04	<0.7 <0.04
OTR (23°C & 0% RH)	cc/m <sup>2</sup> /day cc/100in <sup>2</sup> /day	ASTM D 3985	<1.04 <0.08	<0.9 <0.06	<0.9 <0.06	<0.9 <0.06	<0.9 <0.06	<0.9 <0.06

Notes: 1) Metallized side is available wound inside/outside of the roll – customer to specify accordingly; 2) Metallization with plasma treatment for uniform and enhance metal adhesion is available; 3) The film has a bond Strength of 450gm/25mm (AIMCAL method) between metal and chemical coated side of the base film; 4) Above properties can be modified to suit customer's requirement; 5) Unless otherwise stated the above values are nominal.

## DISCLAIMER

The information given above is to the best of our knowledge and experience. Some of the properties can be changed as a result of supplier's effort to improve upon the quality of production efficiency of the subject. The information is believed to be the true and accurate and is not intended to violate any statutory condition or right of third party. SRF makes no warranty, express or implied, as to the fitness of the product for any specific use or purpose. The above data is purely for the readers' consideration, investigation and verification and should be read in conjunction with the conditions for sale or contract.



**SRF LIMITED**

**Packaging Films Business**, The Unitech Crest, Block-C, Sector-45, Gurgaon-122003, Haryana, India  
Tel: (+91-124) 435 4400, Fax: (+91-124) 435 4500, pfbfilms@srf.com, www.srf.com

