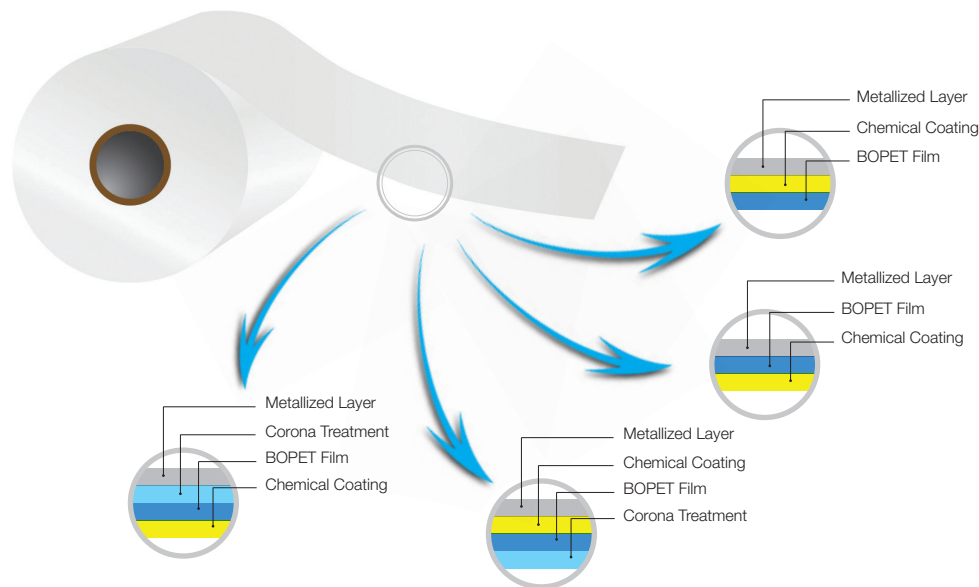


PETLAR-PCM grade is a Biaxially Oriented Vacuum Metallized Polyester Film with excellent barrier and high gloss properties. The base film used is one side copolymer coated polyester film to enhance metal adhesion to the film. This film is available in various variants as illustrated. The film possesses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

PETLAR-PCM grade conforms to 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 | | | | | | | | |
| <i>Customised specs also available on request</i> | | | | | | | | | | |

| 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 | | | | | | | |
| <i>Customised specs also available on request</i> | | | | | | | | | |

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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 | | | | | | | | | | |
|---|---|----------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| | | | PCM0080 | PCM0090 | PCM0100 | PCM0110 | PCM0120 | PCM0150 | PCM0190 | PCM0230 | PCM0300 | PCM0360 | |
| GENERAL | | | | | | | | | | | | | |
| Nominal Thickness | Micron Gauge | SRF Method | 08 32 | 09 36 | 10 40 | 11 44 | 12 48 | 15 60 | 19 76 | 23 92 | 30 120 | 36 144 | |
| Yield | m ² /kg in ² /lb | | 90 63300 | 80 56300 | 72 50600 | 65 46000 | 60 42200 | 48 33700 | 38 26600 | 31 22000 | 24 16800 | 20 14000 | |
| MECHANICAL | | | | | | | | | | | | | |
| Tensile Strength (min) | MD | kg/cm ² kpsi | ASTM D 882 | 2000 29 | 2000 29 | 2000 29 | 2000 29 | 2000 29 | 2000 29 | 2000 29 | 1900 27 | 1900 27 | 1900 27 |
| | TD | kg/cm ² kpsi | | 2100 30 | 2100 30 | 2100 30 | 2100 30 | 2100 30 | 2100 30 | 2100 30 | 2000 29 | 2000 29 | 1900 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 |
| THERMAL | | | | | | | | | | | | | |
| 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 |
| OPTICAL, BARRIER & METAL BOND STRENGTH | | | | | | | | | | | | | |
| Optical Density* | - | SRF Method | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| WVTR (38°C & 90% RH) | gm/m ² /day | ASTM F 1249 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | gm/100in ² /day | | 0.09 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| OTR (23°C & 0% RH) | cc/m ² /day | ASTM D 3985 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | cc/100in ² /day | | 0.09 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Metal Bond Strength | gm/25mm | SRF Method | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 | 650 |
| OPTICAL, BARRIER & METAL BOND STRENGTH | | | | | | | | | | | | | |
| Optical Density* | - | SRF Method | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| WVTR (38°C & 90% RH) | gm/m ² /day | ASTM F 1249 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| | gm/100in ² /day | | 0.06 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| OTR (23°C & 0% RH) | cc/m ² /day | ASTM D 3985 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| | cc/100in ² /day | | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Metal Bond Strength | gm/25mm | SRF Method | 650 | 650 | 650 | 650 | 650 | 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) Above properties can be modified to suit customer's requirement; 4) 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.