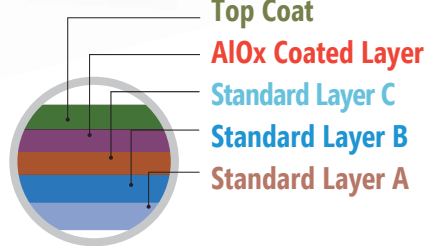
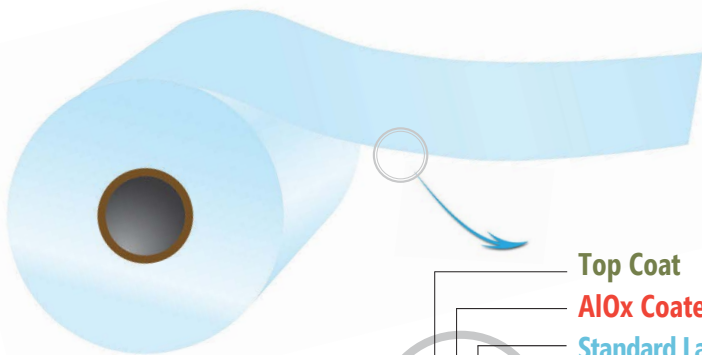




AlOx Coated PETLAR™

SRF's range of transparent Hi-Barrier Films

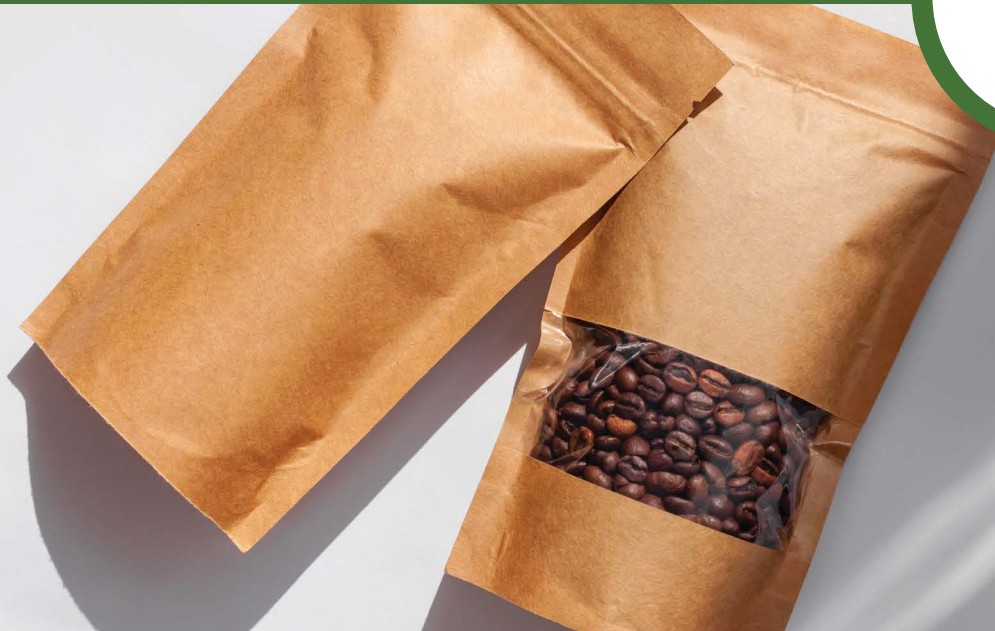


SALES ENQUIRIES

pfb.info@srf.com



AIOx Coated PETLAR



Top coated AIOx PETLAR is a co-extruded bi-axially oriented AIOx coated polyester film which offers excellent barrier for oxygen and water vapour along with superior transparency for see through.

The film consists of high clarity BOPET film as base substrate onto which a very thin layer of AIOx is deposited at our state-of-the-art vacuum

web metallisation technology which ensures uniform deposition across web using precise process controls. The AIOx deposited film is then top coated with protective top coat in our dust free production facility using specially designed coating technology which ensures minimal loss of barrier during further processing of film.

1

High Barrier
Performance

2

High
Clarity and
Transparency

3

Excellent Ink
Adhesion

4

Robust
Processability

5

Available in
Retort and Non-
Retort grades

Barrier Performance

Excellent oxygen and moisture barrier

AIOx PETLAR exhibits a very high barrier to oxygen and water vapour. The typical values are:

Oxygen transmission rate: <0.7 cc/m²/24 hrs

Water vapour transmission rate: <0.7 g/m²/24 hrs

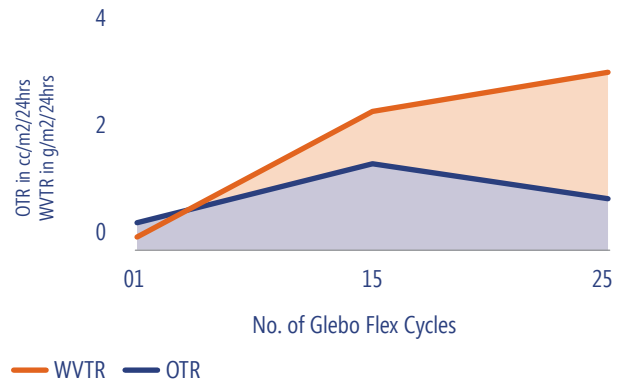
Minimal impact of temperature and humidity on barrier

Top coated AIOx PETLAR shows negligible loss of barrier when subjected to temperature and humidity variations

Top coated to prevent barrier loss due to flexing

Top coating prevents any barrier loss when laminate made using AIOx PETLAR is subjected to strain during handling and package transit

Flex resistance of AIOx laminate¹



1. Laminate Structure: 12 mic AIOx//Printing with Vinyl Ink// PU based Adhesive 2 GSM//50 mic PE

Measurements:

OTR as per ASTM D 3985 [at 23°C, 50% RH (cc/m²/day)]

WVTR as per ASTM F 1249 [at 38°C, 90% RH (g/m²/day)]

Clarity & Transparency

- » Clear visibility of packed product
- » Enables optical inspection/scanning and metal detection during packaging process

90%
Transparent



Processability

Excellent processability

AIOx PETLAR has shown excellent ink adhesion and can be used in 2 ply laminate structures as well thus avoiding additional barrier layer. The film when processed multiple times for slitting, printing and lamination has reported minimal loss of barrier when tested under standard conditions

Suitable for retort

Retortable variant of AIOx PETLAR is also available which can be used in retort, hot fill and pasteurisation applications. The film has shown minimal loss of barrier when tested for retort at 121 deg C for 30 minutes

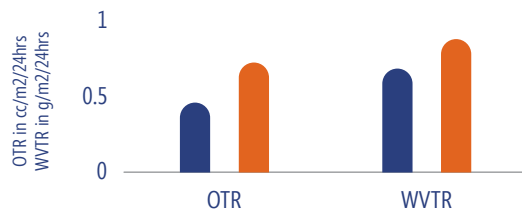
Laminate Structure: 12 mic AIOx//Printing with Vinyl Ink//PU based Adhesive 2 GSM//50 mic PE

Measurements:

OTR as per ASTM D 3985 [at 23°C, 50% RH (cc/m²/day)]

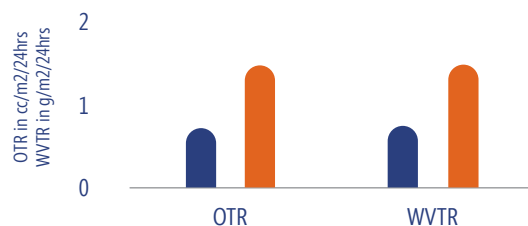
WVTR as per ASTM F 1249 [at 38°C, 90% RH (g/m²/day)]

Barrier Performance of Top Coated AIOx



■ Top Coated AIOx Film ■ Laminate1

Retort Performance of Top Coated AIOx Laminate*



■ Before Retort ■ After Retort

*Retort Conditions: 121 deg C for 30 mins

Applications

Functional Applications:

- » Reverse Print Applications
- » Microwave Applications
- » Retort Applications

Products:

- » Cheese
- » Meat
- » Dried Meat Snacks
- » Dry Fruits
- » Cereals



DISCLAIMER:

The information contained herein is to be used only as a guideline for using AIOx coated PETLAR film. The specifications and characteristics mentioned are based on reliable test procedures. Users of this film should make independent assessment of 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.