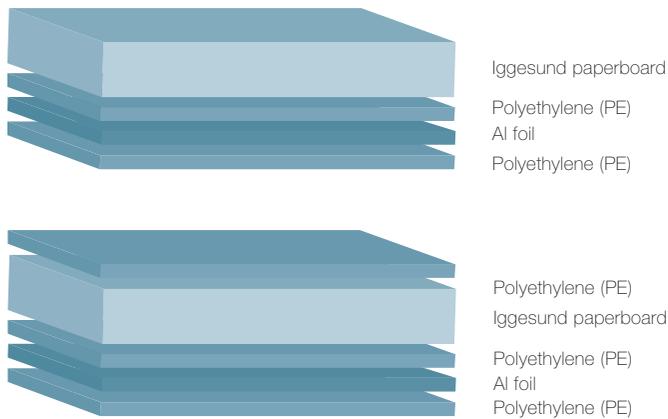


# AlubARRIER



## Product description

Paperboard with aluminium foil laminated onto the reverse side is suitable for packaging applications where sensitive products should be protected from moisture and diff gases. The aluminium lamination makes the board practically impermeable to light, moisture, flavours and gases.

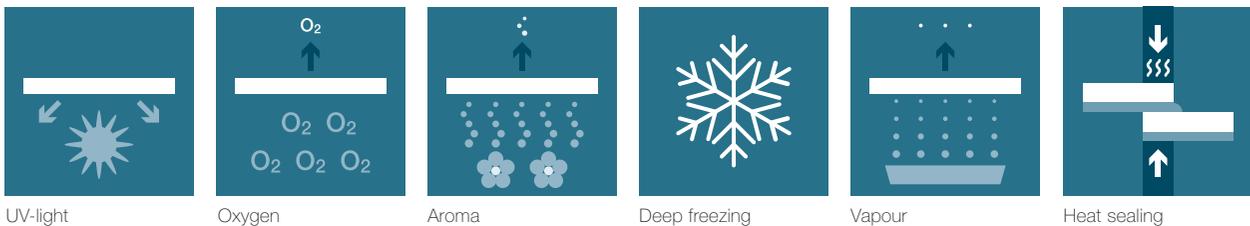
A PE coating on top of the aluminium foil protects the foil from aggressive products, and makes the surface sealable. The printing side of the baseboard can be coated with PE, as with standard two-sides plastic coated board.

## Additional properties

The aluminium foil lamination gives:

- Good sealability
- Excellent moisture, flavour and gas barrier from the inside
- Excellent light barrier

The reverse side is normally an NSO (non-set-off) surface for reduced ink set-off tendency and improved friction.



## Typical end use area

### One-side or Two-sides AlubARRIER

- Confectionery
- Tobacco
- Biscuits and other food
- Cake mixes
- Cereals
- Ice cream

## Baseboard/Grammage guide

Information on baseboard properties is found under *Paperboard products* in the **Product Catalogue**. AlubARRIER is available in the following combinations of baseboards and grammages (g/m<sup>2</sup>):

Printing side:	15-25 g/m <sup>2</sup> PE, glossy surface, corona treatment	No coating
Grammage range according to the specific baseboard		
Reverse side:	57 g/m <sup>2</sup> AlubARRIER, matt (non-set-off surface), no corona treatment	57 g/m <sup>2</sup> AlubARRIER, matt (non-set-off surface), corona treatment

For AlubARRIER the estimated increase in thickness a result of the lamination process is, for machine direction 15-50%, for cross direction 40-80%, in relation to the specified baseboard value. The lower the baseboard grammage, the higher the percentage increase.

Property	Printing side <sup>1)</sup>	Reverse side	Tolerance	Test method
Grammage (g/m <sup>2</sup> )	15-25	57	-	ISO 536
Added thickness (µm)	16-27	46	-	Calculated value
Surface smoothness (µm)	≤2.7 (typical)	≥5.0 (typical)	PS≤ 3.5	ISO 8791
Surface tension (dynes/cm)	≥42 <sup>2)</sup>	≥42 <sup>2,3)</sup>	-	ISO 8296
Adhesion (scale)	5 (typical)	6 (typical)	≥4	Internal <sup>4)</sup>
<sup>1)</sup> Valid for 2-side coating only				
<sup>2)</sup> When produced. After delivery the level can be affected by conditions beyond our control				
<sup>3)</sup> Valid only for 1-side coating				
<sup>4)</sup> Scale 1–6. (6 = the best possible adhesion on the concerned surface)				

Issued: 01.2019

# Foil and Film Laminates

## Barrier properties

Foil and film laminates are used on paperboard to provide protection against wet or aggressive products and to provide a barrier against moisture loss and gas transfer. The construction of the package and its closures are in many cases the factors which limit the total protective function of the package.

The shelf life of the packed product depends on parameters such as:

- Quality and geometry of the product
- Filling level in the package
- Exposed area of the product
- Chemical properties of the product
- Storage conditions

When selecting a suitable protective plastic barrier it is necessary to refer to previous experience with similar packing requirements and also to consider the specific barrier. Typical values for our most common plastic coatings are tested according to ASTM F-1249/ DIN 53122 (water vapour permeability) and ASTM D-3985/DIN 53380 (oxygen permeability).

## Typical barrier values

Polymer/Barrier	Grammage (g/m <sup>2</sup> )	Water Vapour Permeability (g/m <sup>2</sup> /24 h)		Oxygen Permeability (cm <sup>3</sup> /m <sup>2</sup> /24 h/atm)	
		23°C, 50% RH	38°C, 90% RH	23°C, 50% RH	38°C, 90% RH
Metalprint	29	16	65	110	150
Aluprint	36	<0.01	<0.01	<0.01	<0.01
AlubARRIER/Aluvision	57	<0.01	<0.01	<0.01	<0.01