

Product description

Polyethylene (PE) coated paperboard is suitable for packaging applications where moisture barrier properties are important. The PE coating also provides a simple yet efficient way of sealing the package. PE coatings can be one or two-sided and three different types of PE coating are available: LDPE, LDPE Super Seal and HDPE.

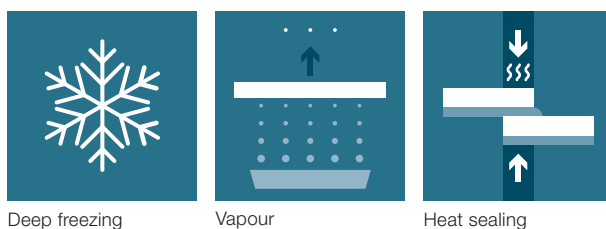
The LDPE is the most frequently used product for frozen food. It provides a good combination of barrier and sealability characteristics. LDPE Super Seal has better heat sealing properties than LDPE. The barrier properties are marginally lower. HDPE has a higher temperature limit, can withstand abrasion better and has better barrier characteristics than LDPE. HDPE coatings are normally done on the reverse side. All PE coatings are available in white, brown or black pigmented versions.

Additional properties

The PE coating gives:

- Good sealability
- As one-side coated, good moisture barrier from the inside
- As two-sides coated, good moisture barrier from both sides

The reverse side is a NSO (non-set-off) surface for reduced ink set-off tendency and reduced blocking and friction.



Typical end use areas

One-side LDPE/HDPE

Vegetables (packed pre-frozen)
Fish and other seafoods (packed pre-frozen)
Meat products (packed pre-frozen)
Cups
Ice cream
Confectionery
Chocolate

Two-sides LDPE

Fish and other seafoods (packed wet)
Vegetables (packed wet)
Cups
Ice cream

Baseboard/Grammage guide

Information on baseboard properties is found under *Paperboard products* in the **Product Catalogue**.

PE coatings are available in the following combinations of baseboards and grammages (g/m²)

Invercote	Printing side 15–25 g/m ² PE, glossy surface, corona treatment
	Grammage range according to the specific baseboard
	Reverse side 15–25 g/m ² PE, matt (non-set-off surface), no corona treatment ¹⁾
Invercote	Printing side
	Grammage range according to the specific baseboard
	Reverse side 15–25 g/m ² PE, matt (non-set-off surface), corona treatment
Incada	Printing side 15–25 g/m ² PE, glossy surface, corona treatment
	Grammage range according to the specific baseboard
	Reverse side 15–25 g/m ² PE, matt (non-set-off surface), no corona treatment ¹⁾
Incada	Printing side
	Grammage range according to the specific baseboard
	Reverse side 15–25 g/m ² PE, matt (non-set-off surface), corona treatment

¹⁾ Corona treated if 1-side (reverse side) coated only.
Other PE grammages and pigments available on request.

Property	Printing side	Reverse side	Tolerance	Test method
Grammage (g/m ²)	15-25	15-25	±5 %	ISO 536
Added thickness (µm)	16-27	16-27	-	Calculated value
Surface roughness (µm)	≤ 2.7 (typical)	≥ 5.0 (typical)	PS≤3.5	ISO 8791
Surface tension (dynes/cm)	≥42 ¹⁾	≥ 42 ^{1,2)}	-	ISO 8296
Adhesion (scale)	5 (typical)	6 (typical)	≥ 4	Internal ³⁾
Pin holes (number/m ²)	-	0 (typical) ⁴⁾	-	PTN 8-70 (modified)
¹⁾ When produced. After delivery the level can be affected by conditions beyond our control				
²⁾ Valid only for 1-side coating				
³⁾ Scale 1–6. (6 = full fibre tear/excellent on a fully clay-coated surface)				
⁴⁾ Valid for PE grammages = 20 g/m ²				