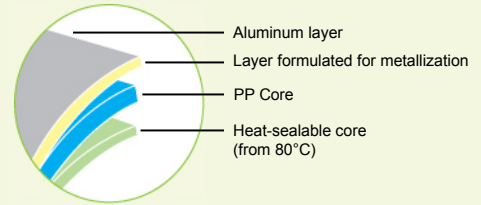


MS80E_HB



BOPP Film, metallized, high barrier, heat-sealable on the inner surface with initial seal temperature of 85°C and with excellent slip, indicated for lamination.



Main Characteristics

- Metallized film, providing protection from light, for sensitive products.
- Heat-sealable from 85°C on the non-metallized surface.
- High barrier to steam and gas permeation.
- High operating flexibility in automatic packaging equipment.
- Excellent sealing hermeticity and *hot tack*.
- Non-migratory slip system.

Applications / Recommendations

- Internal substrate of the “*flow pack*” for snacks.
- The metallized surface should have no direct contact with food.

Typical Values

Properties	Procedure	Unit	MS80E_HB MS80E20HB
Main properties			
THICKNESS	DIN 53370	µm	20
GRAMMAGE	Vitopel	g/m ²	18.2
YIELD		m ² /kg	54.9
OPTICAL DENSITY	Macbeth TD904	-	2.4
SEALING RESISTANCE	Vitopel	N/15mm	3.2
COEFFICIENT OF DYNAMIC FRICTION – Film/Film – NT/NT	ASTM D 1894	-	0.26
Descriptive properties			
SEALING RANGE	Vitopel	°C	85 – 145
RESISTANCE TO FRICTION IN BREAKS	ASTM D 882	N/mm ² MD	150
		TD	270
STRETCH IN BREAKS	ASTM D 882	% MD	180
		TD	50
RESIDUAL SHRINKAGE	Vitopel 120°C, 5min	% MD	4.5
		TD	2.0
PERMEABILITY TO STEAM	ASTM F 1249 38°C, 90%RH	g/m ² /24h	Maximum of 0.30
PERMEABILITY TO OXYGEN	ASTM F 3985 23°C, 0%RH	cm ³ //m ² /24h	60

Notes

1 – Abbreviations used: DM – direction of equipment; DT – direction cross-sectional to equipment.

2 – The values described in the table above are not the product specification, but represent the average or typical values for this product.

3 – The films mentioned are metallized on the external surface. Films with metallization on the internal surface (I) can be supplied through prior consultation with the Commercial sector.

4 – The use of metallized films is recommended in the conservation process, within a maximum period of 3 months from the billing date, with the purpose of minimizing the risk of loss of integrity of the metal layer and damages to the barrier properties.

5 – The influence of the climatic conditions in the surface energy of the metallized surface is highly relevant. Therefore, we recommend the application of primer or corona treatment on the metallized surface before printing or laminating with another substrate.

The technical information in this publication is based on our experience and is general in nature. The information provided herein must not be considered or interpreted as guarantee of suitability of the product specified for a purpose or intended use by someone who becomes aware of the said information, except when expressed otherwise by us.