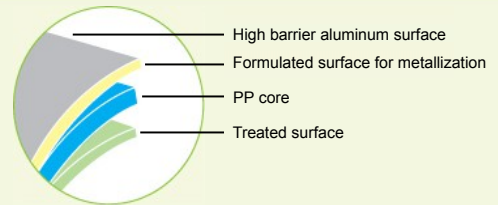


# MD\_HB



Bioriented Polypropylene Film, metallized, with high water vapour barrier, non heat-sealable, treatment on the non metallized side for printing and/or lamination.



## Main Characteristics

- High barrier to water vapour.
- Metallized film, giving light protection for sensitive products.
- Non metallized side treated for printing and/or lamination.
- Non heat-sealable.

## Applications

- Automatic packing machines, like “flow-pack” and “pouch”.
- Designed for food packages which need improved moisture barrier.
- The metallized side must be protected against the direct contact with food.

## Typical Values

Properties	Procedure	Unit	MD_HB
<b>Main Properties</b>			<b>MD17HB</b>
THICKNESS	DIN 53370	µm	17
UNIT WEIGHT	Vitopel	g/m <sup>2</sup>	15,5
YIELD		m <sup>2</sup> /kg	64,6
OPTICAL DENSITY	Macbeth TD904	-	2,4
SURFACE TENSION	ASTM D 2578	Dynes/cm	≥ 38
WATER VAPOR TRANSMISSION RATE	ASTM F 1249 38°C (100°F), 90%RH	g/m <sup>2</sup> /24h	máx. 0,30
<b>Descriptive Properties</b>			
COEFFICIENT OF FRICTION DYNAMIC - Film/Film - T/T	ASTM D 1894	-	0,35
TENSILE STRENGTH	ASTM D 882	N/mm <sup>2</sup> MD	160
		TD	285
ELONGATION AT BREAK	ASTM D 882	% MD	160
		TD	50
DIMENSIONAL STABILITY	Vitopel 120°C (248°F), 5min	% MD	4,0
		TD	3,0
OXYGEN TRANSMISSION RATE	ASTM D 3985 23°C (73°F), 0%RH	cm <sup>3</sup> /m <sup>2</sup> /24h	60

## Notes

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1 - Abbreviations used: DM – machine directions; TD – transversal directions; NT – non treated side.

2 - The values described above should be considered as a reference and may not be taken as product specification values.

3 - The films mentioned above have their outer surface treated. Films with internal treatment ( I ) may be supplied by previously consulting to the commercial department.

4 - It is recommended use the metallized film until three months after the metallization aimed at to diminish the negative effect of the oxidation of the aluminum layer that affects the barrier of the gases.

5 - The weather conditions have influence at metallized surface can be changed. Then, it is necessary the application of “primers” over the metallized surface and / or retreat the film before print or laminate with another substratum.

The above values are average data and should not be taken as final specification, and there is no guarantee for accuracy. The information above is not intended as a representation or warranty of performance properties with respect to these products.