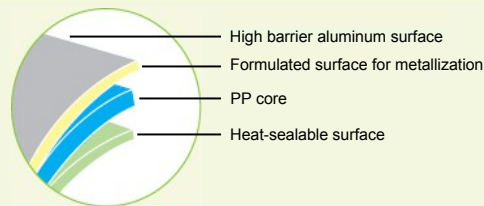


# MSE\_HB



Bioriented Polypropylene Film, metallized, with high water vapor barrier, heat-sealable from 105°C on the internal side, designed for printing and/or lamination



## Main Characteristics

- High barrier to water vapour
- Good gas barrier
- Metallized film, giving light protection for sensitive products
- Heat-sealable on both sides, and from 105°C on the non metallized side

## Applications

- Inside web for “flow-pack” for snacks
- Adhesive lamination
- Indicated for food packages which need humidity barrier
- The metallized side must be protected against the direct contact with food

## Typical Values

Properties	Procedure	Unit	MSE_HB	
			MSE17HB	MSE20HB
<b>Main Properties</b>				
THICKNESS	DIN 53370	µm	17	20
UNIT WEIGHT	Vitopel	g/m <sup>2</sup>	15,5	18,2
YIELD		m <sup>2</sup> /kg	64,6	54,9
OPTICAL DENSITY	Mac Beth TD904	-	2,4	
HEAT-SEAL STRENGTH	Vitopel	N/15mm	3,0	3,2
COEFFICIENT OF FRICTION DYNAMIC - Film/Film - NT/NT	ASTM D 1894	-	0,28	
WATER VAPOUR TRANSMISSION	ASTM F 1249 38°C / 90%UR	g/m <sup>2</sup> /24h	máx. 0,30	
<b>Descriptive Properties</b>				
HEAT-SEAL RANGE	Vitopel	°C	105 - 145	
TENSILE STRENGTH	ASTM D 882	N/mm <sup>2</sup> MD	165	
		TD	280	
ELONGATION AT BREAK	ASTM D 882	% MD	170	
		TD	50	
DIMENSIONAL STABILITY	Vitopel 120°C / 5min	% MD	5,0	
		TD	2,5	
OXYGEN TRANSMISSION	ASTM D 3985 23°C / 0%ur	cm <sup>3</sup> /m <sup>2</sup> /24h	40	

## 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.