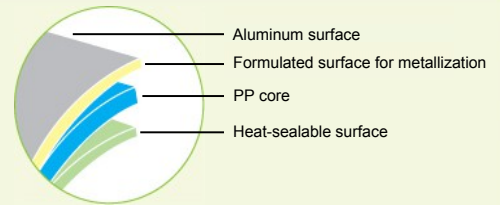


MSE_



Bioriented Polypropylene Film, metallized, heat-sealable from 105°C on the internal side, designed for printing and/or lamination.



Main Characteristics

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

Applications

- Flow-pack or lap seal packages for snacks, cookies, chocolates, candies, ice creams, coffee, etc...
- Adhesive lamination.
- The metallized side must be protected against the direct contact with food.

Typical Values

Properties	Procedure	Unit	MSE_					
			MSE15	MSE17	MSE20	MSE25	MSE30	MSE50
Main Properties								
THICKNESS	DIN 53370	µm	15	17,5	20	25	30	50
UNIT WEIGHT	Vitopel	g/m ²	13,7	15,9	18,2	22,8	27,3	45,5
YIELD		m ² /kg	73,3	62,8	54,9	44,0	36,6	22,0
OPTICAL DENSITY	Macbeth TD904	-	2,2					
HEAT-SEAL STRENGTH	Vitopel	N/15mm	2,7	2,9	3,2	3,7	4,3	5,4
COEFFICIENT OF FRICTION DYNAMIC - Film/Film - NT/NT	ASTM D 1894	-	0,30					
Descriptive Properties								
HEAT-SEAL RANGE	Vitopel	°C	105 - 145					
TENSILE STRENGTH	ASTM D 882	N/mm ² MD	155					
		TD	285					
ELONGATION AT BREAK	ASTM D 882	% MD	195					
		TD	60					
DIMENSIONAL STABILITY	Vitopel 120°C (248°F), 5min	% MD	4,5					
		TD	2,0					
WATER VAPOR TRANSMISSION RATE	ASTM F 1249 38°C (100°F), 90%RH	g/m ² /24h	0,50					
OXYGEN TRANSMISSION RATE	ASTM D 3985 23°C (73°F), 0%RH	cm ³ /m ² /24h	100					

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 metallized. Films with internal metallization (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 metalized 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.