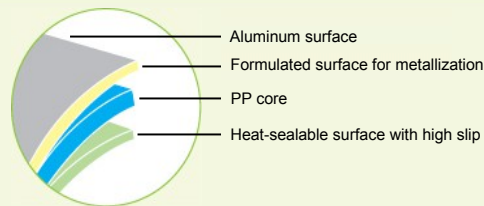


MSE_HS



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



Main Characteristics

- Metallized film, giving light protection for sensitive products
- Excellent high slip with hot slip properties even at high temperatures
- Heat-sealable on both sides, and from 105°C on the non metallized side
- Good barrier to water and gases

Applications

- Excellent performance as an inside web for laminated structures on packing machines like “flow-pack” vertical and horizontal
- Specially designed for snack packages and applications that demand high slip and stable slip properties at high temperatures
- The metallized side must be protected against the direct contact with food

Typical Values

Properties	Procedure	Unit	MSE_HS	
			MSE17HS	MSE20HS
Main Properties				
THICKNESS	DIN 53370	µm	17,5	20
UNIT WEIGHT	Vitopel	g/m ²	15,9	18,2
YIELD		m ² /kg	62,8	54,9
OPTICAL DENSITY	Mac Beth TD904	-	2,2	
HEAT-SEAL STRENGTH	Vitopel	N/15mm	3,0	3,2
COEFFICIENT OF FRICTION DYNAMIC - Film/Film - NT/NT	ASTM D 1894	-	0,23	
Descriptive Properties				
HEAT-SEAL RANGE	Vitopel	°C	105 - 145	
TENSILE STRENGTH	ASTM D 882	N/mm ² MD	155	
		TD	280	
ELONGATION AT BREAK	ASTM D 882	% MD	190	
		TD	50	
DIMENSIONAL STABILITY	Vitopel 120°C / 5min	% MD	4,5	
		TD	2,0	
WATER VAPOUR TRANSMISSION	ASTM F 1249 38°C / 90%UR	g/m ² /24h	0,50	
OXYGEN TRANSMISSION	ASTM D 3985 23°C / 0%ur	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 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.