

Treated Sealant Layer

Polypropylene Core Layer

Lightly Treated Antifog Modified Sealant Layer

SUPEX 2011 ML

Description

SUPEX 2011 ML is a transparent, coextruded biaxially oriented polypropylene (BOPP) film with antifogging property. Both sides heat sealable. One side treated for printing.

A special antifogging (antimist) film for fresh fruit and vegetables packaging where high visibility in cold environment is needed. The film retains its transparency by spreading the condensed water droplets into a continuous and uniform water layer and the packaged foods stay clearly visible. It also protects the packed food against deterioration caused by droplets of water.

It is printable and heat sealable packaging film for use on HFFS, VFFS and bag making machines where the strong seals, excellent hot-tack and antifog properties are needed.

Please be informed that, as an industrial fact and practice, present antifog films are for medium humidity levels in the packages. If, related with the goods packed, the humidity content inside the package is high, standart antifog surface would not be good enough and certain macro and/or micro perforation should be applied.

Properties

- Excellent antifogging (antimist) property
- Broad seal range
- · Excellent hot tack and heat seal strength
- Good hot slip
- Excellent dimensional stability
- High clarity and gloss
- Good moisture barrier
- Resistance to chemicals, greases and oils
- Excellent ink adhesion



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Technical Features

PROPERTIES	TEST METHOD	UNITS		2011 ML			
THICKNESS	ASTM F2251	micron		25	30	35	40
		Gauge		100	120	140	160
YIELD	ASTM	m²/kg		44	36,6	31,4	27,5
	D4321	in²/Lbs		30.900	25.800	22.100	19.300
UNIT WEIGHT	ASTM D4321	g/m²		22,8	27,3	31,9	36,4
HAZE	ASTM D1003	%		1,6		1,8	
GLOSS (45 °)	ASTM D2457	%		85			
	ASTM D882	MD	N/mm²	150			
TENSILE STRENGTH AT			lb/in²	21.800			
BREAK		TD	N/mm²	270			
			lb/in²	39.200			
ELONGATION AT BREAK	ASTM D882	MD	%	200			
		TD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	65			
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	%	3			
		TD		1			
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film		0,30			
		Film/Metal		0,20			
SURFACE	ASTM D2578	Dyne/		38			
TENSION		cm Other Side		•			
HEATSEAL RANGE	ASTM F88	°C		115-145			
		°F		239-293			
HEATSEAL STRENGTH (120 °C, 1 MPa, 1 s)	ASTM F88	N/15mm		2,0			

"Product Identification (Decision 97/129/EC): PP5"

Please be informed that additives used in antifog films are very sensitive to excess heat. Films should be kept in cool & dry places to maximize shelf life regarding the antifog performance. We should also like to remind that antifog films should be used in 6 months after production. We would like to inform that treated side could also show some level of antifog property since the antifog property of the film is retained by migrative additives.

Regulatory Status

Our product complies with the applicable EC legislation on packaging involving direct contact with foods except metallized films. Full details are given on the Regulatory Compliance Certificate and can be found on our web site.

The information contained in this data sheet is true and accurate according to current state of our knowledge and intented to give general information on our products and their applications. Above values are to be considered as guidelines and not as product specifications. Since the actual conditions of use are beyond our control, users are advised to make their own tests at their specific conditions of laboratory and/or actual use. We suggest our customers to determine final suitability for their specific end uses.

Also be advised that information on this data sheet shall not be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing, pending or future patents.

For related spec sheet with tolerance values, please contact our sales departments

STANDARD ROLL DIMENSIONS						
CORE INNER DIAMETER (ID)	CORE OUTER DIAMETER (OD)	LENGTH TOLERANCE	WIDTH TOLERANCE			
76 mm (3 in) & 152 mm (6 in)	530 mm & 790 mm *	± % 5 for ≤ 390 mm OD	- 0 & + 4 mm			
		± % 10 for > 390 mm OD				

* 790 mm OD is available for BOPP films above 350 mm width



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