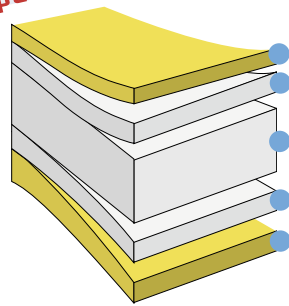


patented



Sealing layer - **TREATED**

Functional layer

OPP modified core

Functional layer

Sealing layer - Antifog - **TREATED**

## ANTIFOG HEAT SEALABLE COEXTRUDED FILM

### Description

- Transparent bi-oriented polypropylene film, both sides sealable with antifog effect; specially designed for fresh vegetable packaging

### Properties

- Antifog effect
- Both sides sealable
- One side printable
- Good transparency and gloss
- No blocking effect

### Typical Applications

- Salads
- Fresh products
- Cut vegetables

### General Conditions for application

- 6 months lasting antifog properties
- Minimum shelf temperature of packaging: 4 °C
- The end-user must test the film performances in the real conditions to verify the suitability of applications

### Safeguards

- Release notes for Vibac Europe films are available on request

### Typical values

PROPERTIES		UNITS	TEST METHODS					
Thickness		microns		<b>25*</b>	<b>30</b>	<b>35</b>	<b>40*</b>	<b>50</b>
Grammage		g/m <sup>2</sup>	DIN EN ISO 2286	22.75	27.30	31.85	36.40	45.50
Yield		m <sup>2</sup> /Kg	1/2/3	43.96	36.63	31.40	27.47	21.98
<b>TENSILE PROPERTIES</b>								
Tensile strength	MD	N/mm <sup>2</sup>	ASTM D882 DIN EN ISO 527-1/3	150	150	150	150	140
Elongation	MD	%		220	220	220	220	230
Secant Modulus 100%	MD	N/mm <sup>2</sup>		90	90	90	90	80
Elastic Modulus 1%	MD	N/mm <sup>2</sup>		1800	1800	1800	1800	1800
Tensile strength	TD	N/mm <sup>2</sup>		250	250	250	250	240
Elongation	TD	%		75	75	75	75	60
<b>OPTICAL PROPERTIES</b>								
Gloss 45°		%	ASTM D2457	85	85	85	85	85
Haze <sup>(1)</sup>		%	ASTM D1003	1.8	2	2	2.3	2.3
<b>THERMAL STABILITY</b>								
Shrinkage (hot air 130 °C -5')	MD	%	OPMA TC4a	4				
	TD			1				
<b>COEFFICIENT OF FRICTION<sup>(2)</sup></b>								
AF / AF			ASTM D1894	0.25				
AF / Met	dynamic		DIN EN ISO 8295	0.20				
<b>SEALING</b>								
Sealing threshold	Inside / Inside	°C	OPMA TC4	≈ 125				≈ 125
Seal strength	130 °C	g/cm	OPMA TC4	≥ 180				≥ 200
<b>PERMEABILITY</b>								
OTR	23°C 0% r.h.	cc/(m <sup>2</sup> d atm)	ASTM D3985	2150	1800	1600	1400	1100
WVTR	37.8°C 100% r.h.	g/(m <sup>2</sup> d)	ASTM F1249	7	6.5	6	5	4
WVTR	23°C 85% r.h.	"	DIN 53122	1.5	1.4	1.3	1.1	0.9
<b>ANTIMIST TEST</b>			IOQ 824.35	D/E				
<b>TREATMENT</b>								
Surface tension		dynes/cm	ASTM D2578	38				

<sup>(1)</sup> Due to additives migration this value is subject to change by ageing depending on storage conditions and thermal history.

<sup>(2)</sup> After conditioning 24 h at 50 °C

(\*) Thickness available upon request

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### ANTIMIST TEST

DESCRIPTION	PERFORMANCE	RATING
An opaque layer of small fog droplets	Very poor	A
An opaque or transparent layer of large droplets	Poor	B
A complete layer of large transparent droplets	Poor	C
Randomly scattered or large transparent drops	Good	D
A transparent film displaying no visible water	Excellent	E

#### Guidelines for storage of OPP film

No special conditions are required for the storage of OPP films but it is recommended that dry conditions below 30°C are employed to minimise any deterioration of surface discharge treatment level.  
 All OPP films should be allowed to reach operating room temperature for 24 hours before use.  
 Polypropylene films characteristics are maintained for 6 months from the date of production except for metallized layer surface tension.

#### Food contact

Vifan CTG complies with the requirements of EEC directives and FDA regulation.  
 Specific documentation and migration test results are available upon request.