

Description

- Metallized bi-oriented polypropylene film with enhanced barrier properties. The seal initiation temperature (S.I.T) is $\approx 105^\circ\text{C}$

Properties

- Excellent metal adhesion
- Excellent barrier properties (moisture and oxygen).
- Sparkling appearance
- Good printing properties
- Excellent cold seal acceptance on non-metallized layer

Typical Applications

- Laminated structure where good barrier is required
- As replacement of Al foil where moisture barrier is required
- Suitable for hot sealing or cold seal applications

Safeguards

- Release notes for Vibac Europe films are available on request

Typical values

PROPERTIES		UNITS	TEST METHODS	15	20	30*
Thickness		microns		13.65	18.20	27.30
Grammage		g/m^2	DIN EN ISO 2286	73.26	54.95	36.63
Yield		m^2/Kg	1/2/3			
TENSILE PROPERTIES						
Tensile strength	MD	N/mm^2	ASTM D882 DIN EN ISO 527-1/3	160	160	155
Elongation	MD	%		200	210	230
Secant Modulus 100%	MD	N/mm^2		100	100	95
Elastic Modulus 1%	MD	N/mm^2		1900	2000	1900
Tensile strength	TD	N/mm^2		300	300	300
Elongation	TD	%		70	70	70
OPTICAL PROPERTIES						
Optical Density			IOQ 824.18	≥ 2		
THERMAL STABILITY						
Shrinkage (hot air 130° -5')	MD	%	OPMATC4(a)	4		
	TD	%		1		
COEFFICIENT OF FRICTION						
Untr / Untr	dynamic		ASTM D1894	0.35		
Untr / Met	dynamic		DIN EN ISO 8295	0.20		
SEALING						
Sealing threshold	Untr/Untr	$^\circ\text{C}$	OPMATC4	≈ 105	≈ 105	≈ 105
Seal strength 130 $^\circ\text{C}$		g/cm	OPMATC4	> 150	> 200	> 200
PERMEABILITY						
OTR	23 $^\circ\text{C}$ 0% r.h.	$\text{cc}/(\text{m}^2 \text{ d atm})$	ASTM D3985	50		
WVTR	37.8 $^\circ\text{C}$ 100% r.h.	$\text{g}/(\text{m}^2 \text{ d})$	ASTM F1249	0.35		
WVTR	23 $^\circ\text{C}$ 85% r.h.	"	DIN 53122	0.07		
METAL ADHESION		g/cm	IOQ 824.29	≥ 250		

(*) Thickness available upon request

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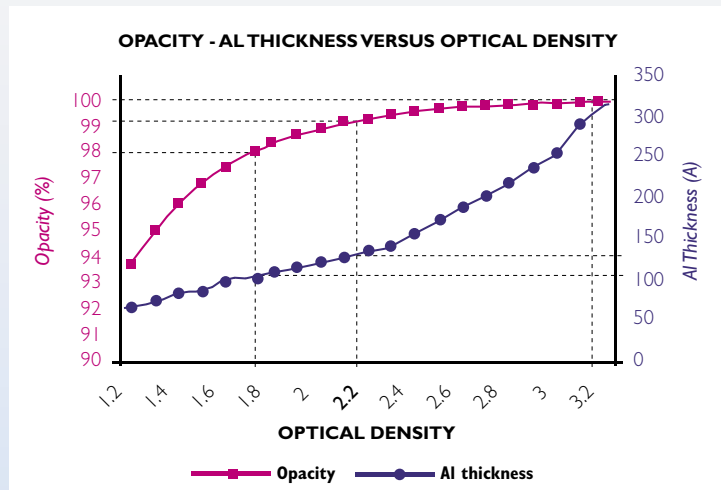
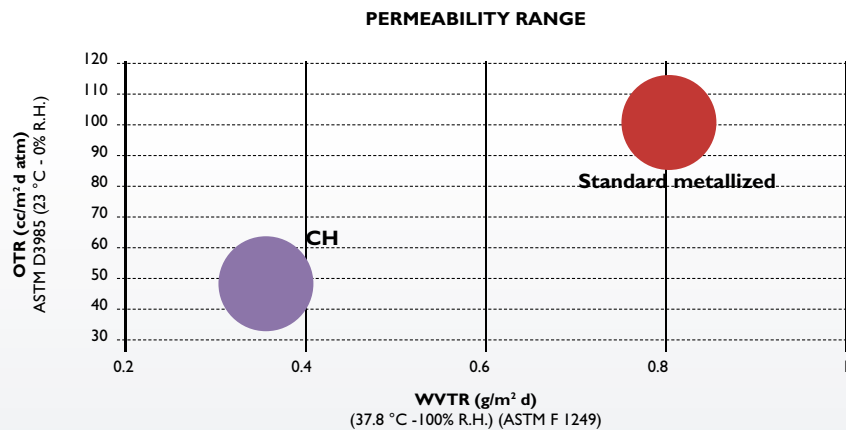
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Guidelines for use of OPP film

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 wetting tension.

All OPP films should be allowed to reach operating room temperature for 24 hours before use.

Metallized (OPP) films are well known to age with time and it is recommended that stock should be evaluated for ink adhesion prior to printing and if necessary a primer employed. In case of deterioration of wetting tension level it is recommended that the material is re-treated prior to conversion to optimise adhesion of inks and adhesives.

Polypropylene films characteristics are maintained 6 months from the date of production except for metallized layer surface tension.

Food contact

Vifan CH complies with the requirements of EEC directives and FDA regulation.

Unprotected metallized layer must not be in contact with food

Specific documentation and migration test results are available upon request.