

### Description

- Metallized bi-oriented polypropylene film, one side sealable with a broad sealing range. The seal initiation temperature (S.I.T) is  $\approx 95^{\circ}\text{C}$

### Properties

- Low seal initiation temperature
- Excellent metal adhesion
- Good barrier properties (moisture and oxygen)
- Sparkling appearance
- Good printing properties
- Excellent seal integrity

### Typical Applications

- The low seal initiation temperature ( $\approx 95^{\circ}\text{C}$ ) provides an excellent performance on high speed HFFS machine
- GZ/GY/GX are recommended for HFFS and VFFS machine as the inner sealable web in laminated structure (potato chips and snack) where barrier/light protection and seal integrity are required

### Safeguards

- Release notes for Vibac Europe films are available on request

### Typical values

PROPERTIES		UNITS	TEST METHODS			
Thickness		microns			<b>20</b>	
Grammage		$\text{g/m}^2$	DIN EN ISO 2286		18.20	
Yield		$\text{m}^2/\text{Kg}$	1/2/3		54.95	
<b>TENSILE PROPERTIES</b>						
Tensile strength	MD	$\text{N/mm}^2$	ASTM D882 DIN EN ISO 527-1/3		150	
Elongation	MD	%			200	
Secant Modulus 100%	MD	$\text{N/mm}^2$			95	
Elastic Modulus 1%	MD	$\text{N/mm}^2$			1900	
Tensile strength	TD	$\text{N/mm}^2$			290	
Elongation	TD	%			65	
<b>THERMAL STABILITY</b>						
Shrinkage (hot air $130^{\circ}\text{C} -5'$ )	MD	%	OPMA TC4a		4	
	TD				1	
<b>COEFFICIENT OF FRICTION</b>						
Untr / Untr	dynamic		ASTM D1894		0.50	
Untr / Met	dynamic		DIN EN ISO 8295		0.30	
<b>SEALING</b>						
Sealing threshold	Untr / Untr	$^{\circ}\text{C}$	OPMA TC4		$\approx 95$	
Seal strength $130^{\circ}\text{C}$		$\text{g/cm}$			$\geq 200$	
<b>METAL ADHESION</b>		$\text{g/cm}$	IOQ 824.29		$>250$	
				<b>GZ</b> Standard deposition	<b>GY</b> High deposition	<b>GX</b> Heavy deposition
<b>OPTICAL PROPERTIES</b>						
Optical density			IOQ 824.18	$\geq 1.8$	$\geq 2.0$	$\geq 2.2$
<b>PERMEABILITY</b>						
OTR	$23^{\circ}\text{C}$ 0% r.h.	$\text{cc}/(\text{m}^2 \text{d atm})$	ASTM D3985	120	100	80
WVTR	$37.8^{\circ}\text{C}$ 100% r.h.	$\text{g}/(\text{m}^2 \text{d})$	ASTM F1249	1.0	0.8	0.7
WVTR	$23^{\circ}\text{C}$ 85% r.h.	"	DIN 53122	0.22	0.17	0.15

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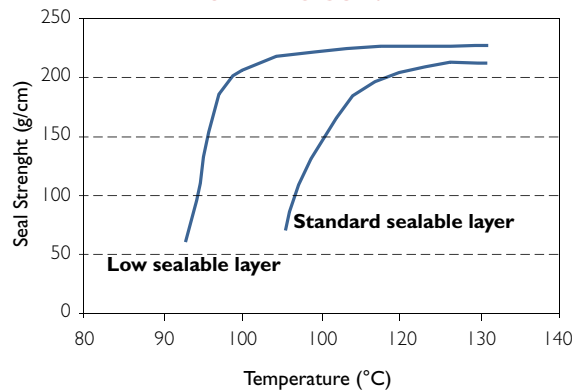
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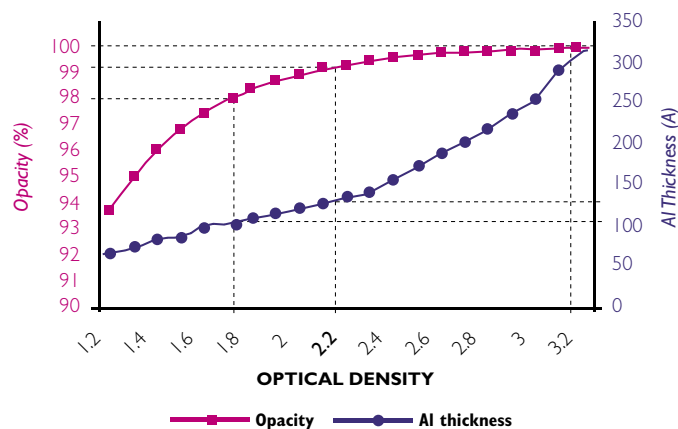
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**SEALING CURVE**



**OPACITY - AL THICKNESS VERSUS OPTICAL DENSITY**



#### 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  $30^\circ\text{C}$  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.

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 for 6 months from the date of production except for metallized layer surface tension.

#### Food contact

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