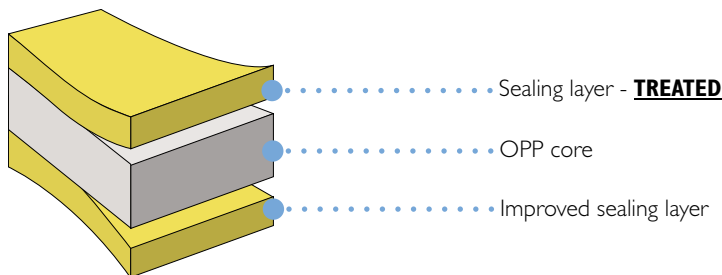


## IMPROVED SEALING PERFORMANCES COEXTRUDED FILM



### Description

- Transparent bi-oriented polypropylene film, both sides sealable with a broad sealing range and increased sealing layer.
- The seal initiation temperature (S.I.T.) is  $\approx 105^\circ\text{C}$  on the non-treated side

### Properties

- Excellent seal integrity and seal strength
- Enhanced hot tack
- Excellent sealability towards mePE
- Good moisture barrier
- Superior optical properties
- Outstanding printing characteristics

### Typical Applications

- Crisps packaging
- Heavy products (candies)
- Powdery products
- Suitable as sealing layer in barrier laminates for gasflushing applications

### 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	160
Elongation	MD	%		220
Secant Modulus 100%	MD	$\text{N/mm}^2$		100
Elastic Modulus 1%	MD	$\text{N/mm}^2$		1800
Tensile strength	TD	$\text{N/mm}^2$		260
Elongation	TD	%		80
<b>OPTICAL PROPERTIES</b>				
Gloss $45^\circ$		%	ASTM D2457	85
Haze <sup>(1)</sup>		%	ASTM D1003	1.8
<b>THERMAL STABILITY</b>				
Shrinkage (hot air $130^\circ -5'$ )	MD	%	OPMA TC4a	4
	TD			1
<b>COEFFICIENT OF FRICTION<sup>(2)</sup></b>				
Untr / Untr	dynamic		ASTM D1894	0.25
Untr / Met	dynamic		DIN EN ISO 8295	0.20
<b>SEALING</b>				
Sealing threshold	Untr / Untr	$^\circ\text{C}$	OPMA TC4	$\approx 105$
Seal strength $130^\circ\text{C}$		$\text{g/cm}$	OPMA TC4	$\geq 200$
Hot tack test $130^\circ\text{C}$	Residual Seal (250 g/15mm)	%	IOQ.824.38	$> 80$
<b>PERMEABILITY</b>				
OTR	$23^\circ\text{C}$ 0% r.h.	$\text{cc}/(\text{m}^2 \text{ d atm})$	ASTM D3985	1900
WVTR	$37.8^\circ\text{C}$ 100% r.h.	$\text{g}/(\text{m}^2 \text{ d})$	ASTM F1249	6.5
WVTR	$23^\circ\text{C}$ 85% r.h.	"	DIN 53122	1.4
<b>TREATMENT</b>				
Surface tension		$\text{dynes/cm}$	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  $50^\circ\text{C}$

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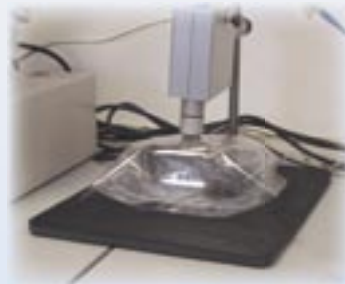
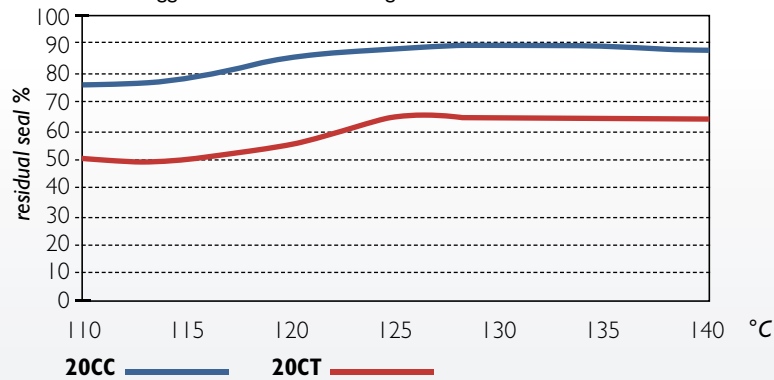
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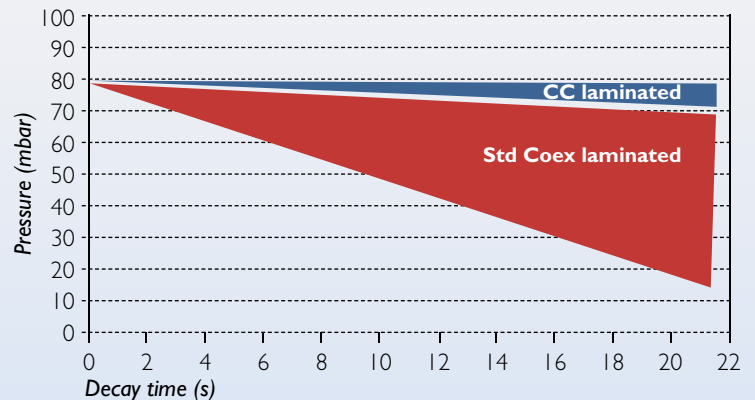
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#### HOT TACK 20CC VS. 20CT

Otto Brugger - Constant load: 250g/15 mm



#### PRESSURE LOSS TEST



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

#### Food contact

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