

### **Improved Thermal Resistance Matt Film**

#### **Properties**

- ✓ Improved thermal resistance
- ✓ Excellent dimensional stability
- ✓ Superior stiffness
- ✓ One side matt , other side glossy
- ✓ Treated on the glossy side
- ✓ Excellent slip properties

#### **Typical Applications**

Matt layer in Duplex and Triplex monoPP structures for High Thermal demanding applications



PROPERTIES	VALUE	UNIT	TEST METHOD				
Thickness	20	micron					
Grammage			g/m²	DIN EN ISO 2286- 1/2/3			
Yield		57,14	m²/kg				
TENSILE PROPERTIES							
Tensile Strength	MD	160	N/mm²				
rensile strength	TD	300	N/mm²				
Elongation	MD	220	%	ASTM D882			
Elongation	TD	70	%	DIN EN ISO 527-1/3			
Secant Modulus 100%	MD	95	N/mm²				
Elastic Modulus 1%	MD	2000	N/mm²				
OPTICAL PROPERTIES							
Gloss 45°		9	Gloss unit	ASTM D2457			
Haze	Haze			ASTM D1003			
THERMAL STABILITY							
Shrinkage	MD	3	%	OPMA TC4a			
(hot air 130°C - 5')	TD	1	%	ОРМА ТС4а			
COEFFICIENT OF FRICTION							
Matt/ Matt dynamic		0,30		ASTM D1894 DIN EN ISO 8295-04			
TREATMENT							
Treatment leve	38	dyne/cm	ASTM D2578				
DO NOT REFRESH THE TREATMENT							

#### Guidelines for storage of OPP film

No special conditions are required fort the storage of OPP films, however it is recommended that dry conditions below 30°C are employed to minimize any deterioration of film properties and surface treatment level. All OPP films should be allowed to reach operation room temperature for 24 hours before use. Films are suitable for use within 6 months from date of delivery

#### **Food contact**

Vibac **CSKHT** complies to the requirements of EEC directives and FDA regulations. Specific documentation and migration test results are available upon request. The results obtained and above properties refer to average values of laboratory tests on samples of our standard production. It is understood that this entails no obligation and/or other responsibility on our part. Customer should verify the suitability of the film for its specific end use, therefore this document will not represent a product specification. Vibac does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped.

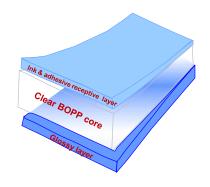




#### **Not Sealable Transparent Film**

#### **Properties**

- ✓ Improved thermal resistance
- ✓ Excellent dimensional staility
- ✓ Superior stiffness
- ✓ Excellent optical properties
- ✓ Outstanding printing characteristics



#### **Typical Applications**

REB is specially designed to be used as outside web of laminates as alternative to BOPET

PROPERT	IES		UNIT	TEST METHOD		
Thickness		18	20	30	micron	
Grammage		16,38	16,38 18,20		g/m²	DIN EN ISO 2286- 1/2/3
Yield		61,05	m²/kg			
TENSILE PR	ROPERTIES					
Tanaila Chuanath	MD		170		N/mm²	
Tensile Strength	TD		300		N/mm²	
Elongation	MD		170		%	ASTM D882 DIN EN ISO 527
Eloligation	TD		60		%	1/3
Secant Modulus 100%	MD		N/mm²			
Elastic Modulus 1%	MD		N/mm²			
OPTICAL P	ROPERTIES					
Gloss 45°				Gloss unit	ASTM D2457	
Haze		1,75	1,90	%	ASTM D1003	
THERMAL	STABILITY					
Shrinkage MD		2,5			%	OPMA TC4a
(hot air 130°C - 5')	TD		0,5	%	OPINIA TC4a	
COEFFIC	IENT OF FRICTI	ON				
Untr / Untr	dynamic		0,21			ASTM D1894
Untr / Met	dynamic			DIN EN ISO 8295 04		
PERMEABI	LITY				'	
Oxygen Transmission Rate	23°C-0% R.H.	2050	1860	1250	cc/(m² d atm)	ASTM D3985
Water Vapor	37.8°C-100% R.H.	7,0	6,5	5,0	g/(m² d)	ASTM F1249
Transmission Rate	23°C-85% R.H.	1,6	1,4	1,1	"	DIN 53122
TREATMEN	NT					
Treatment level			38		dyne/cm	IOQ 730.1.27 Softal pencil
	DO NOT	USE CORONA TREAT	MENT BEFORE PRINTI	NG OR LAMINATION	I	

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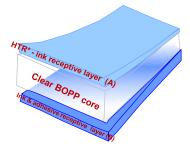




## Not Sealable Transparent Treated on both sides

#### **Properties**

- ✓ Improved thermal resistance
- ✓ Excellent dimensional stability
- ✓ Superior stiffness
- ✓ Excellent optical properties
- ✓ Outstanding printing characteristics
- ✓ Treated on both sides



\*HTR: high thermal resistant

#### **Typical Applications**

REBT both side treated film is specially designed to be used as outside web of laminates as alternative to BOPET

PROPERTIES		VALUE	UNIT	TEST METHOD		
Thickness		20	micron			
Grammage		18,20	g/m²	DIN EN ISO 2286- 1/2/3		
Yield		54,95	m²/kg	2280-1/2/3		
TENSILE PROPERTIES						
Tanaila Stuanath	MD	170	N/mm²			
Tensile Strength	TD	300	N/mm²			
Elongation	MD	180	%	ASTM D882		
Eloligation	TD	60	%	DIN EN ISO 527-1/3		
Secant Modulus 100%	MD	115	N/mm²			
Elastic Modulus 1%	MD	2500	N/mm²			
OPTICAL PROPERTIES	,					
Gloss 45°		80	Gloss unit	ASTM D2457		
Haze		3,5	%	ASTM D1003		
THERMAL STABILITY				-		
Shrinkage	MD	2,5	%	OPMA TC4a		
(hot air 130°C - 5')	TD	TD <b>0,5</b> %		UPIVIA 1C4a		
COEFFICIENT OF FR	RICTION					
Tr A / Tr A	dynamic	0,25		ASTM D1894 DIN EN ISO 8295-04		
Tr B / Tr B	dynamic	0,25				
PERMEABILITY			'			
Oxygen Transmission Rate	23°C-0% R.H.	1860	cc/(m² d atm)	ASTM D3985		
Water Vapor Transmission Rate	37.8°C-100% R.H.	6,5	g/(m² d)	ASTM F1249		
water vapor fransiliission kate	23°C-85% R.H.	1,4	"	DIN 53122		
TREATMENT						
reatment level layer A		38	duna /ans	IOQ 730.1.27		
			dyne/cm	Softal pencil		

#### Guidelines for storage of OPP film

No special conditions are required fort the storage of OPP films, however it is recommended that dry conditions below 30°C are employed to minimize any deterioration of film properties and surface treatment level. All OPP films should be allowed to reach operation room temperature for 24 hours before use. Films are suitable for use within 6 months from date of delivery

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# **REB1.CM**



## VCOAT Ultra high barrier metallized film

#### **Properties**

- ✓ Excellent metal adhesion
- ✓ Outstanding barrier properties (aroma, moisture and oxygen)
- √ Good barrier mineral oil
- ✓ Sparkling appearance
- ✓ Good printing properties
- ✓ Provide significant protection against mineral oil barrier migration, protection period more than 2 years \*

# Aluminium layer Metallizable layer Clear BOPP Core Sealing layer (Unitr)

#### **Typical Applications**

To replace alu foil in flexible packaging. Especially designed for duplex structure as sealable side and for cold seal applications. Suitable to be treated during conversion; can be applied, as intermediate layer in triplex structure.

PROPE	RTIES		VALUE	UNIT	TEST METHOD		
Thickness		16	18	30	micron		
Grammage		14,56	16,38	g/m²	DIN EN ISO 2286- 1/2/3		
Yield		68,68	61,05	m²/kg			
TENSILE	PROPERTIES						
Tensile Strength	MD		170		N/mm²		
rensile strength	TD		280		N/mm²		
Elongation	MD		220		%	ASTM D882	
Elongation	TD		80		%	DIN EN ISO 527-1/3	
Secant Modulus 100%	MD		110	N/mm²	527-1/3		
Elastic Modulus 1%	MD		1900	N/mm²			
OPTICAL	L PROPERTIES						
Optical density			2,5		%	IOQ 824.18	
THERM	AL STABILITY						
Shrinkage	MD		4		%	OPMA TC4a	
(hot air 130°C - 5')	TD		2	%	OT WIA 1C4a		
SEALING PROPERT	IES						
Sealing Threshold	Untr/Untr		≈ 105	°C	OPMA TC4b		
Seal Strength 130°C	Untr/Untr		≥ 200	g/cm	OPIVIA 1C4b		
PERMEABILITY							
Oxygen Transmission Rate	23°C-0% R.H.		0,10		cc/(m² d atm)	ASTM D3985	
Water Vapor	37.8°C-90% R.H.	0,15			g/(m² d)	ASTM F1249	
Transmission Rate	23°C-85% R.H.		0,04	g/(m² d)	DIN 53122		

<sup>\*</sup> under certain conditions

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No special conditions are required fort the storage of OPP films, however it is recommended that dry conditions below 30°C are employed to minimize any deterioration of film properties. All OPP films should be allowed to reach operation room temperature for 24 hours before use. Coated OPP films are suitable for use within 12 months from date of delivery

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## **VCOAT**: Clear BOPP film with barrier coating

#### **Properties**

structure.

- ✓ Good aroma barrier
- ✓ Outstanding oxygen and mineral oil barrier properties
- ✓ Printable on barrier coating
- ✓ Outstanding optical properties
- ✓ To be used in laminated structure to replace clear barrier film
- protection period more than 2 years \*

## ✓ Provide significant protection against mineral oil barrier migration, **Typical Applications** Barrier coating needs to be protected from humidity. The film is suitable for outside layer in duplex



PROPERTIES		VALUE	UNIT	TEST METHOD		
Thickness	20	micron				
Grammage	18,20	g/m²	DIN EN ISO 2286- 1/2/3			
Yield	<b>54,95</b> m²/kg		, ,			
TENSILE PROPERTIES						
Tamaila Stuamath	MD	160	N/mm²			
Tensile Strength	TD	290	N/mm²			
Elongation	MD	210	%	ASTM D882		
Eloligation	TD	70	%	DIN EN ISO 527-1/3		
Secant Modulus 100%	MD	110	N/mm²			
Elastic Modulus 1%	MD	1900	N/mm²			
OPTICAL PROPERTIES						
Gloss 45°		85	Gloss Unit	ASTM D2457		
Haze		1,4	%	ASTM D1003		
THERMAL STABILITY						
Shrinkage	MD	2,5	%	ODMA TGA		
(hot air 130°C - 5')	TD	0,5	%	OPMA TC4a		
COEFFICIENT OF FRICTION	ON					
Untr / Untr	dynamic	0,30		ASTM D1894		
Untr/ Met	dynamic	0,20		DIN EN ISO 8295-04		
PERMEABILITY						
Oxygen Transmission Rate	23°C-0% R.H.	1	cc/(m² d atm)	ASTM D3985		
Water Vanor Transmission Rate	37.8°C-90% R.H.	5,0	g/(m² d)	ASTM F1249		
vacci vapoi iransimission nate	23°C-85% R.H.	1,1	g/(m² d)	DIN 53122		
Water Vapor Transmission Rate		•				

<sup>\*</sup> under certain conditions

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**VCOAT** : Clear BOPP film, Acrylic/High barrier coating

#### **Properties**

- ✓ PVdC Free
- ✓ Excellent WV, Oxygen & Aroma barriers
- ✓ Excellent seal strength on Acr/Acr and Acr/X combination
- ✓ Outstanding optical properties
- ✓ X coating printable properties in line with acrylic coating
- ✓ Provide significant protection against mineral oil barrier migration, protection period more than 3 years\*



#### **Typical Applications**

This film is designed for use in HFFS & VFFS flexible packaging, as well as in Overwrapping applications

PROPERTIES VALUE				UNIT	TEST METHOD				
Thickness		21 26 32 42 47			micron				
Grammage	19,32 23,92	29,44	38,64	43,24	g/m²	DIN EN ISO 2286- 1/2/3			
Yield	Yield			33,97	25,88		23,13	m²/kg	
TENSILE PRO	OPERTIES								
Tarada Guarant	MD	160				N/mm²			
Tensile Strength	TD	280				N/mm²			
Flamastian	MD			250			%	ASTM D882	
Elongation	TD			90			%	DIN EN ISO 527-1/3	
Secant Modulus 100%	MD			85			N/mm²		
Elastic Modulus 1%	MD			2700			N/mm²		
OPTICAL PR	OPERTIES								
Gloss 45°				98			Gloss Unit	ASTM D2457	
Haze		2	,0	2,2	2,4	2,6	%	ASTM D1003	
THERMAL S	TABILITY								
Shrinkage	MD			4			%	ODMA TCA	
(hot air 130°C - 5')	TD	2				%	OPMA TC4a		
SEALING PF	ROPERTIES								
Sealing threshold	Acr/Acr			≈ 90			°C		
Seal strength 130 °C	Acr/Acr	≥ 200					g/cm	OPMA TC4b	
Sear strength 130 C	X / Acr			≥ 200			g/cm		
COEFFICIEN	T OF FRICTION								
Acr/Acr	dynamic	0,25 0,20					ASTM D1894 DIN EN ISO 8295-04		
Acr/Met	dynamic								
x/x	dynamic	0,30							
X/met	dynamic	0,25							
PERMEABIL	ITY								
Oxygen Transmission Rate	23°C-0% R.H.			10			cc/(m² d atm)	ASTM D3985	
Water Vapor	37.8°C-90% R.H.	4	3,5	3	2,5	2,2	g/(m <sup>2</sup> d)	ASTM F1249	
Transmission Rate * under certain conditions	23°C-85% R.H.	0,85	0,75	0,65	0,55	0,50	g/(m <sup>2</sup> d)	DIN 53122	

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