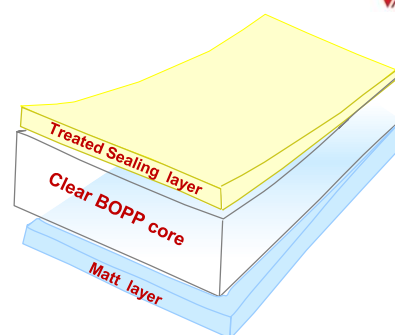


Matt Coextruded Film

Properties

- ✓ One side matt, other side glossy
- ✓ Sealable on matt and treated side
- ✓ Treated on the glossy side
- ✓ Excellent slip properties



Typical Applications

CSK is specifically designed to give a paper-like appearance when used as outer ply of lamination for snack, confectionery and bakery markets

PROPERTIES		VALUE				UNIT	TEST METHOD
Thickness		18	20	25	30	micron	DIN EN ISO 2286- 1/2/3
Grammage		15,75	17,5	21,87	26,25	g/m ²	
Yield		63,49	57,14	45,71	38,09	m ² /kg	
TENSILE PROPERTIES							
Tensile Strength	MD	155	155	155	150	N/mm ²	ASTM D882 DIN EN ISO 527-1/3
	TD	300	300	300	300	N/mm ²	
Elongation	MD	220	220	230	230	%	
	TD	70	70	70	70	%	
Secant Modulus 100%	MD	95	95	95	95	N/mm ²	
Elastic Modulus 1%	MD	2000	2000	1900	1900	N/mm ²	
OPTICAL PROPERTIES							
Gloss 45°		9				Gloss unit	ASTM D2457
Haze		80				%	ASTM D1003
THERMAL STABILITY							
Shrinkage (hot air 130°C - 5')	MD	5				%	OPMA TC4a
	TD	2				%	
SEALING PROPERTIES							
Sealing threshold	Untr/Untr	≈ 105				°C	OPMA TC4b
Seal strength 130 °C	Untr/Untr	≥ 190				g/cm	
COEFFICIENT OF FRICTION							
Matt/ Matt	dynamic	0,25					ASTM D1894 DIN EN ISO 8295-04
PERMEABILITY							
Oxygen Transmission Rate	23°C-0% R.H	2000	1900	1600	1300	cc/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-100% R.H	7,5	6,5	6	5	g/(m ² d)	ASTM F1249
	23°C-85% R.H.	1,6	1,4	1,3	1	g/(m ² d)	DIN 53122
TREATMENT							
Treatment level		38				dyne/cm	IOQ 730.1.27 (Softal pencil)
DON'T USE CORONA TREATMENT BEFORE PRINTING OR LAMINATION!							

Guidelines for storage of OPP film

No special conditions are required for 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

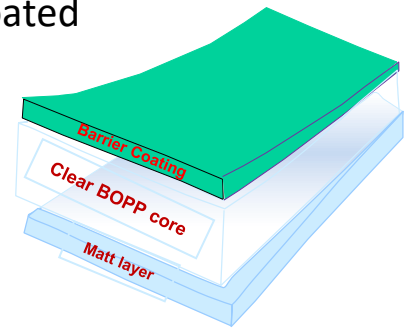
Vibac CSK complies to the requirements of EEC directives and FDA regulations. Specific documentation and migration test results are available upon request. The results obtained and above properties refer to average values of laboratory tests on samples of our standard production. It is understood that 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.



VCOAT : Matt BOPP film one side Barrier coated

Properties

- ✓ Excellent Oxygen & Aroma barriers
- ✓ Excellent seal strength on sealing layer (matt / matt)
- ✓ Outstanding optical properties
- ✓ Provide significant protection against mineral oil barrier migration, protection period more than 3 years*



Typical Applications

Barrier coated side needs to be protect from humidity. The film is suitable for duplex structure

PROPERTIES		VALUE	UNIT	TEST METHOD
Thickness		20	micron	DIN EN ISO 2286-1/2/3
Grammage		17,5	g/m ²	
Yield		57,14	m ² /kg	
TENSILE PROPERTIES				
Tensile Strength	MD	155	N/mm ²	ASTM D882 DIN EN ISO 527-1/3
	TD	300	N/mm ²	
Elongation	MD	250	%	
	TD	90	%	
Secant Modulus 100%	MD	85	N/mm ²	
Elastic Modulus 1%	MD	2000	N/mm ²	
OPTICAL PROPERTIES				
Gloss 45°		9	Gloss Unit	ASTM D2457
Haze		70	%	ASTM D1003
THERMAL STABILITY				
Shrinkage (hot air 130°C - 5')	MD	5	%	OPMA TC4a
	TD	2	%	
SEALING PROPERTIES				
Sealing threshold	Untr / Untr	≈ 105	°C	OPMA TC4b
Seal strength 130 °C	Untr / Untr	≥ 190	g/cm	
COEFFICIENT OF FRICTION				
Untr/Untr (matt/matt)	dynamic	0,50		ASTM D1894 DIN EN ISO 8295-04
Untr/Met (matt/met)	dynamic	0,25		
PERMEABILITY				
Oxygen Transmission Rate	23°C-0% R.H.	1	cc/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-100% R.H.	5,0	g/(m ² d)	ASTM F1249
	23°C-85% R.H.	1,1	g/(m ² d)	DIN 53122

* under certain conditions

Guidelines for storage of OPP film

No special conditions are required for 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

Food contact

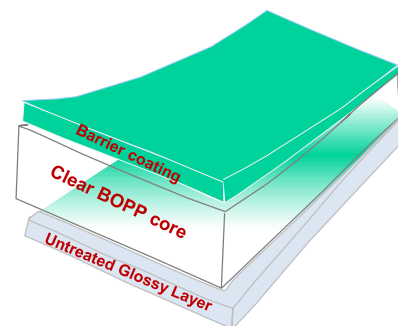
Vibac H1.S complies to the requirements of EEC directives and FDA regulations. Specific documentation and migration test results are available upon request. The results obtained and above properties refer to average values of laboratory tests on samples of our standard production. It is understood that 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.



VCOAT : Clear BOPP film with barrier coating

Properties

- ✓ 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
- ✓ Provide significant protection against mineral oil barrier migration, protection period more than 2 years *



Typical Applications

Barrier coating needs to be protected from humidity. The film is suitable for outside layer in duplex structure.

PROPERTIES	VALUE	UNIT	TEST METHOD	
Thickness	20	micron	DIN EN ISO 2286- 1/2/3	
Grammage	18,20	g/m ²		
Yield	54,95	m ² /kg		
TENSILE PROPERTIES				
Tensile Strength	MD	160	N/mm ²	ASTM D882 DIN EN ISO 527-1/3
	TD	290	N/mm ²	
Elongation	MD	210	%	
	TD	70	%	
Secant Modulus 100%	MD	110	N/mm ²	
Elastic Modulus 1%	MD	1900	N/mm ²	
OPTICAL PROPERTIES				
Gloss 45°	85	Gloss Unit	ASTM D2457	
Haze	1,4	%	ASTM D1003	
THERMAL STABILITY				
Shrinkage (hot air 130°C - 5')	MD	2,5	%	OPMA TC4a
	TD	0,5	%	
COEFFICIENT OF FRICTION				
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.	5	cc/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-90% R.H.	5,0	g/(m ² d)	ASTM F1249
	23°C-85% R.H.	1,1	g/(m ² d)	DIN 53122

* under certain conditions

Guidelines for storage of OPP film

No special conditions are required for 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.

Food contact

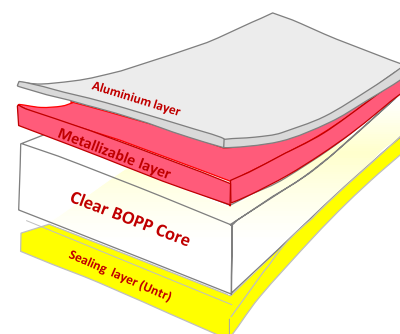
Vibac REB.C complies to the requirements of EEC directives and FDA regulations. Specific documentation and migration test results are available upon request.

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.

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 *



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.

PROPERTIES		VALUE			UNIT	TEST METHOD
Thickness		16	18	30	micron	DIN EN ISO 2286-1/2/3
Grammage		14,56	16,38	27,30	g/m ²	
Yield		68,68	61,05	36,63	m ² /kg	
TENSILE PROPERTIES						
Tensile Strength	MD	170			N/mm ²	ASTM D882 DIN EN ISO 527-1/3
	TD	280			N/mm ²	
Elongation	MD	220			%	
	TD	80			%	
Secant Modulus 100%	MD	110			N/mm ²	
Elastic Modulus 1%	MD	1900			N/mm ²	
OPTICAL PROPERTIES						
Optical density		2,5			%	IOQ 824.18
THERMAL STABILITY						
Shrinkage (hot air 130°C - 5')	MD	4			%	OPMA TC4a
	TD	2			%	
SEALING PROPERTIES						
Sealing Threshold	Untr/Untr	≈ 105			°C	OPMA TC4b
Seal Strength 130°C	Untr/Untr	≥ 200			g/cm	
PERMEABILITY						
Oxygen Transmission Rate	23°C-0% R.H.	0,10			cc/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-90% R.H.	0,15			g/(m ² d)	ASTM F1249
	23°C-85% R.H.	0,04			g/(m ² d)	DIN 53122

* under certain conditions

Guidelines for storage of OPP film

No special conditions are required for 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

Food contact

Vibac REB1.CM complies to the requirements of EEC directives and FDA regulations. Specific documentation and migration test results are available upon request.

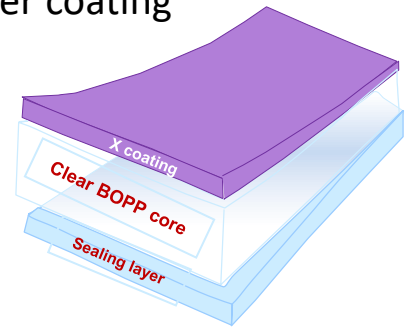
The results obtained and above properties refer to average values of laboratory tests on samples of our standard production. It is understood that this entails no obligation and/or other responsibility on our part. Customer should verify the suitability of the film for its specific end use, therefore 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.



VCOAT : Clear BOPP film one side high barrier coating

Properties

- ✓ PVdC Free
- ✓ Excellent WV, Oxygen & Aroma barriers
- ✓ Excellent seal strength on sealing layer (untr / untr)
- ✓ 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 machines. To be used in duplex structure with std coex for lap seal and cast PP.

PROPERTIES		VALUE	UNIT	TEST METHOD
Thickness		20	micron	DIN EN ISO 2286-1/2/3
Grammage		18,4	g/m ²	
Yield		54,3	m ² /kg	
TENSILE PROPERTIES				
Tensile Strength	MD	160	N/mm ²	ASTM D882 DIN EN ISO 527-1/3
	TD	280	N/mm ²	
Elongation	MD	250	%	
	TD	90	%	
Secant Modulus 100%	MD	85	N/mm ²	
Elastic Modulus 1%	MD	2700	N/mm ²	
OPTICAL PROPERTIES				
Gloss 45°		98	Gloss Unit	ASTM D2457
Haze		2,0	%	ASTM D1003
THERMAL STABILITY				
Shrinkage (hot air 130°C - 5')	MD	4	%	OPMA TC4a
	TD	2	%	
SEALING PROPERTIES				
Sealing threshold	Untr / Untr	≈ 105	°C	OPMA TC4b
Seal strength 130 °C	Untr / Untr	≥ 200	g/cm	
COEFFICIENT OF FRICTION				
Untr/Untr	dynamic	0,50		ASTM D1894 DIN EN ISO 8295-04
Untr/Met	dynamic	0,25		
X/X	dynamic	0,30		
X/met	dynamic	0,25		
PERMEABILITY				
Oxygen Transmission Rate	23°C-0% R.H.	1	cc/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-100% R.H.	5	g/(m ² d)	ASTM F1249
	23°C-85% R.H.	1,1	g/(m ² d)	DIN 53122

* under certain conditions

Guidelines for storage of OPP film

No special conditions are required for 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

Food contact

Vibac X1HB.C 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.