

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



PROPERTII	VALUE				UNIT	TEST METHOD	
Thickness		18	20	25	30	micron	
Grammage		15,75	17,5	21,87	26,25	g/m²	DIN EN ISO 2286- 1/2/3
Yield		63,49	57,14	45,71	38,09	m²/kg	
TENSILE PROPERTIES							
Tensile Strength	MD	155	155	155	150	N/mm²	
rensile strength	TD	300	300	300	300	N/mm²	
Elongation	MD	220	220	230	230	%	ASTM D882
Elongation	TD	70	70	70	70	%	DIN EN ISO 527-1/3
Secant Modulus 100%	MD	95	95	95	95	N/mm²	
Elastic Modulus 1%	MD	2000	2000	1900	1900	N/mm²	
OPTICAL PROPE	RTIES						
Gloss 45°			9	9		Gloss unit	ASTM D2457
Haze		80				%	ASTM D1003
THERMAL STAB	LITY						
Shrinkage	MD	5				%	OPMA TC4a
(hot air 130°C - 5')	TD	2				%	OF WATC4a
SEALING PROPE	RTIES						
Sealing threshold	Untr/Untr		≈1	L05		°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	37.8°C-100% R.H	7,5	6,5	6	5	g/(m² d)	ASTM F1249
Rate	23°C-85% R.H.	1,6	1,4	1,3	1	g/(m² d)	DIN 53122
TREATMENT							
Treatment le	38				dyne/cm	IOQ 730.1.27	

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

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Clear BOpp core

Matt layer

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	
Grammage		17,5	g/m²	DIN EN ISO 2286- 1/2/3
Yield		57,14	m²/kg	2200-1/2/5
TENSILE PROPERTIES				
The state of the second	MD	155	N/mm²	
Tensile Strength	TD	300	N/mm²	
	MD	250	%	ASTM D882
Elongation	TD	90	%	DIN EN ISO 527-1/3
Secant Modulus 100%	MD	85	N/mm²	
Elastic Modulus 1%	MD	2000	N/mm²	
OPTICAL PROPERTIES	5			
Gloss 45°		9	Gloss Unit	ASTM D2457
Haze		70	%	ASTM D1003
THERMAL STABILITY				
Shrinkage	MD	5	%	OPMA TC4a
(hot air 130°C - 5')	TD	2	%	OPINA TC4a
SEALING PROPERTIE	s		- -	
Sealing threshold	Untr / Untr	≈ 105	°C	
Seal strength 130 °C	Untr / Untr	≥ 190	g/cm	OPMA TC4b
COEFFICIENT OF FRIC	TION		2	·
Untr/Untr (matt/matt)	dynamic	0,50		ASTM D1894
Untr/Met (matt/met)	dynamic	0,25		DIN EN ISO 8295-04
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/(m² d)	ASTM F1249
	23°C-85% R.H.	1,1	g/(m ² d)	DIN 53122

* under certain conditions

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Food contact

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LE.OX Provisional



COAT : Trasparent high barrier film

Properties

- Outstanding moisture barrier properties
- ✓ Excellent Oxygen & Aroma barriers
- ✓ Good barrier mineral oil
- ✓ Excellent optical properties
- ✓ 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.

PROPE	RTIES		VALUE		UNIT	TEST METHOD
Thickness		15	18	30	micron	
Grammage	nmage 13,65 16,38		16,38	27,30	g/m²	DIN EN ISO 2286- 1/2/3
Yield		73,26	61,05	m²/kg	2200 1/2/3	
TENSILE	PROPERTIES					
Tensile Strength	MD		170	N/mm²		
Tensile Strength	TD		280		N/mm²	
Florention	MD		220		%	ASTM D882
Elongation	TD		80		%	DIN EN ISO 527-1/3
Secant Modulus 100%	MD		110	N/mm²	527-175	
Elastic Modulus 1%	MD		1900	N/mm²		
OPTICA	L PROPERTIES					
Gloss 45°			90		Gloss Unit	ASTM D2457
Haze			1,5		%	IOQ 824.18
THERM	AL STABILITY					
Shrinkage	MD		4		%	OPMA TC4a
(hot air 130°C - 5')	TD		2	%		
PERME	ABILITY					
Oxygen Transmission Rate	23°C-0% R.H.		0,20		cc/(m ² d atm)	ASTM D3985
Water Vapor	37.8°C-90% R.H.	0,70			g/(m ² d)	ASTM F1249
Transmission Rate	23°C-85% R.H.		0,18		g/(m ² d)	DIN 53122

* under certain conditions

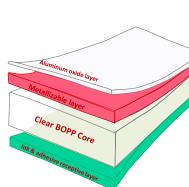
Guidelines for storage of OPP film

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Food contact

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LE1.OX Provisional





Properties

- Outstanding moisture barrier properties
- ✓ Excellent Oxygen & Aroma barriers
- ✓ Good barrier mineral oil
- ✓ Excellent optical properties
- ✓ 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.

PROPE	RTIES		VALUE		UNIT	TEST METHOD
Thickness		15	18	30	micron	
Grammage		13,65	16,38	27,30	g/m²	DIN EN ISO 2286- 1/2/3
Yield		73,26	61,05	m²/kg		
TENSILE	PROPERTIES		2	2		
Tensile Strength	MD		170		N/mm²	
Tensile 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		
OPTICA	L PROPERTIES					
Gloss 45°			90		Gloss Unit	ASTM D2457
Haze			1,5		%	IOQ 824.18
THERM	AL STABILITY					
Shrinkage	MD		4		%	OPMA TC4a
(hot air 130°C - 5')	TD		2		%	UPIVIA TC4a
SEALING	PROPERTIES					
Sealing Threshold	Untr/Untr		≈ 105		°C	OPMA TC4b
Seal Strength 130°C	Untr/Untr		≥ 200		g/cm	0110741040
PERMEA	ABILITY					
Oxygen Transmission Rate	23°C-0% R.H.		0,20		cc/(m ² d atm)	ASTM D3985
Water Vapor	37.8°C-90% R.H.		0,70		g/(m ² d)	ASTM F1249
Transmission Rate	23°C-85% R.H.		0,18		g/(m ² d)	DIN 53122

* under certain conditions

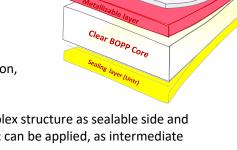
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Food contact

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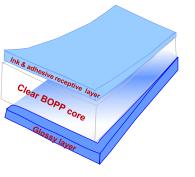
Aluminum oxide la





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

PROPERTI	ES	VALUE			UNIT	TEST METHOD	
Thickness		18	20	30	micron		
Grammage		16,38 18,20 27,30			g/m²	DIN EN ISO 2286- 1/2/3	
Yield		61,05 54,95 36,63				2200 1/2/0	
TENSILE PR	OPERTIES						
Tensile Strength	MD	170		N/mm²			
Tensile Strength	TD		300		N/mm²		
Elongation	MD		170		%	ASTM D882 DIN EN ISO 527	
Liongation	TD		60		%	1/3	
Secant Modulus 100%	MD		115		N/mm²		
Elastic Modulus 1%	MD	2500					
OPTICAL PR	ROPERTIES					-	
Gloss 45°		90			Gloss unit	ASTM D2457	
Haze		1,75	1,75	1,90	%	ASTM D1003	
THERMAL S	STABILITY						
Shrinkage	MD		2,5		%		
(hot air 130°C - 5')	TD		0,5		%	OPMA TC4a	
COEFFICI	ENT OF FRICTIO	N					
Untr / Untr	dynamic		0,21			ASTM D1894	
Untr / Met	dynamic		0,20			DIN EN ISO 8295 04	
PERMEABII	LITY						
Oxygen Transmission Rate	23°C-0% R.H.	2050	1860	1250	cc/(m ² 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	т						
reatment level			38		dyne/cm	IOQ 730.1.27 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

Food contact

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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	
Grammage		18,20	g/m²	DIN EN ISO 2286- 1/2/3
Yield		54,95	m²/kg	
TENSILE PROPERTIES				
Tensile Strength	MD	160	N/mm²	
rensile strength	TD	290	N/mm²	
Flowertier	MD	210	%	ASTM D882
Elongation	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	%	
(hot air 130°C - 5')	TD	0,5	%	OPMA TC4a
COEFFICIENT OF FRIC	TION		•	-
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/(m ² d atm)	ASTM D3985
Water Vapor Transmission Rate	37.8°C-90% R.H.	5,0	g/(m² d)	ASTM F1249
שמנכו שמעטו וומווזוווזזוווזזוטו המנפ	23°C-85% R.H.	1,1	g/(m ² d)	DIN 53122

* under certain conditions

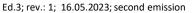
Guidelines for storage of OPP film

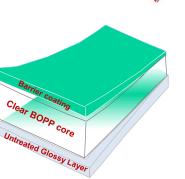
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Food contact

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REB.CM



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

Flexible packaging. It's suitable as intermediate layer of triplex structure to replace the Alu foil.

PROPE	RTIES		VALUE		UNIT	TEST METHOD
Thickness		15	18	30	micron	
Grammage		13,65 16,38		27,30	g/m²	DIN EN ISO 2286- 1/2/3
Yield		73,26	61,05	m²/kg		
TENSILE	TENSILE PROPERTIES					
Tanaila Chuanath	MD		170		N/mm²	
Tensile Strength	TD		280		N/mm²	
F 1	MD		220		%	ASTM D882
Elongation	TD		80		%	DIN EN ISO 527-1/3
Secant Modulus 100%	MD		110	N/mm²		
Elastic Modulus 1%	MD		1900	N/mm²		
OPTICA	L PROPERTIES					
Optical density			2,7		%	IOQ 824.18
THERM	AL STABILITY				-	
Shrinkage	MD		4		%	OPMA TC4a
(hot air 130°C - 5')	TD		2	%	OPINIA TC4a	
PERMEABILITY						
Oxygen Transmission Rate	23°C-0% R.H.	0,1			cc/(m ² d atm)	ASTM D3985
Water Vapor	37.8°C-90% R.H.	0,15	0,10	0,08	g/(m² d)	ASTM F1249
Transmission Rate	23°C-85% R.H.	0,035	0,03	0,02	g/(m ² d)	DIN 53122

* under certain conditions

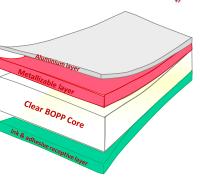
Guidelines for storage of OPP film

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Food contact

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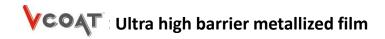
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REB1.CM





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.

PROPE	RTIES		VALUE		UNIT	TEST METHOD	
Thickness		15	18	30	micron		
Grammage		13,65	16,38	27,30	g/m²	DIN EN ISO 2286- 1/2/3	
Yield		73,26	61,05	m²/kg			
TENSILE	PROPERTIES						
Tensile Strength	MD		170		N/mm²		
rensile strength	TD		280		N/mm²		
Florention	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			
OPTICAI	PROPERTIES				_		
Optical density			2,5		%	IOQ 824.18	
THERM	AL STABILITY				-		
Shrinkage	MD		4		%	OPMA TC4a	
(hot air 130°C - 5')	TD		2		%		
SEALING PROPERT	IES				-		
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	37.8°C-90% R.H.		0,15		g/(m² d)	ASTM F1249	
Transmission Rate	23°C-85% R.H.		0,04		g/(m ² d)	DIN 53122	

* under certain conditions

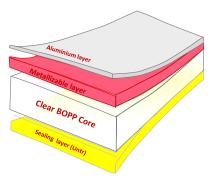
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Food contact

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X1HB.C PRO-TEX PROTECTOR Chlorine free 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		VA	LUE	UNIT	TEST METHOD	
Thickness		20	30	micron		
Grammage		18,4	27,6	g/m²	DIN EN ISO 2286- 1/2/3	
Yield		54,3	36,2	m²/kg	2200 1/2/3	
TENSILE PROPERT	IES					
Tanaila Chuanath	MD	1	60	N/mm²		
Tensile Strength	TD	280		N/mm²		
Elongation	MD	2!	50	%	ASTM D882	
Elongation	TD	9	0	%	DIN EN ISO 527-1/3	
Secant Modulus 100%	MD	8	5	N/mm²		
Elastic Modulus 1%	MD	27	00	N/mm²		
OPTICAL PROPERT	TIES					
Gloss 45°		9	8	Gloss Unit	ASTM D2457	
Haze		2,0		%	ASTM D1003	
THERMAL STABILI	тү					
Shrinkage	MD	4		%		
(hot air 130°C - 5')	TD	:	2	%	OPMA TC4a	
SEALING PROPER	TIES					
Sealing threshold	Untr / Untr	≈1	105	°C		
Seal strength 130 °C	Untr / Untr	≥	200	g/cm	OPMA TC4b	
COEFFICIENT OF F	RICTION					
Untr/Untr	dynamic	0,	50			
Untr/Met	dynamic	0,	25		ASTM D1894	
x/x	dynamic	0,	30		DIN EN ISO 8295-04	
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	37.8°C-100% R.H.	5	4	g/(m ² d)	ASTM F1249	
Rate	23°C-85% R.H.	1,1	0,9	g/(m ² d)	DIN 53122	

* under certain conditions

Guidelines for storage of OPP film

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Food contact

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