



FIDAR HOLDING

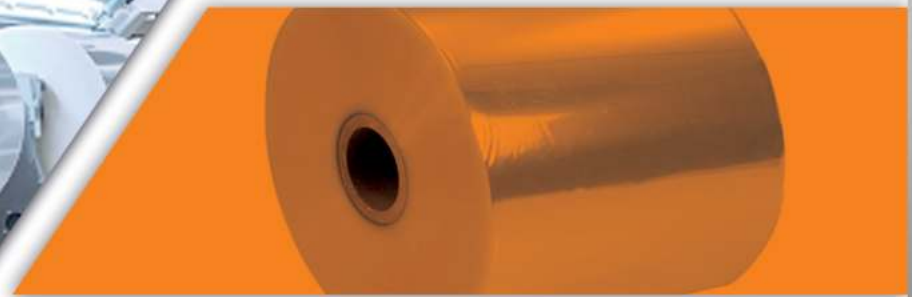
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FIDAR HOLDING

FidarSepand

Fidar Sepand established in 2017 as one of the biggest BOPP Manufacturers of Iran with four production line, started production in 2019, manufacturing a wide range of BOPP films from 12 microns up to 80 microns with a full capacity of 70000 tons annually.



It is a part of Fidar group which is one of the leading industrial groups in Iran and it is progressive manufacturer for BOPP, CPP, Metalized and tape films. Beside these products Fidar holding also is one of the biggest suppliers of DOP oil and PVC granule in the country.



Our products are sold to brand-owners, end-users and converters across the globe. They become part of the solution for the packaging or labelling of some of the best known brands across a wide variety of everyday consumer goods. These include home and personal care products, food, confectionery, tobacco, luxury goods and industrial applications.

Mission, Vision & Values

Fidar group’s mission is to be recognized by our customers as the leading value-added as well as the biggest specialty film supplier of choice. We will achieve this through Innovation, Quality Products, Exceptional Service across our business and Close Relationships and Strategic Alignments.

We recognize that the way we do business, underpinned by our determination to foster original and creative thinking, comes with responsibilities to our staff, stakeholders and the environment.



Commitment

Health and safety is of paramount importance at Fidar Group as is our commitment to complying with all regulatory requirements and minimizing environmental impact.

Research and Development

Fidar's dedicated R&D team is working continuously to improve our products. Also, to develop new products in order to meet both current and future customer needs for this dynamic industry.

We are committed to delivering the highest quality film solutions - where optimum functionality is complemented by efficiency and cost-effectiveness.



Customer service

Part of Fidar group's mission is to be recognized by our customers as a supplier of choice through offering exceptional service in all aspects of business. This of course includes providing a premium level of customer service.

There are different types of products in our factory which technically are distinct in terms of features and application.
Some of the products' data analysis can be seen in the next pages.



TN11

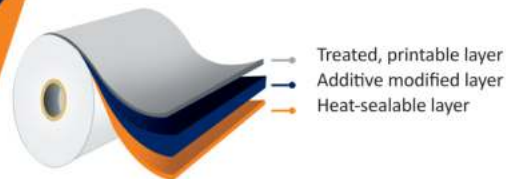
Co-extruded, one side heat-sealable, other side treated transparent BOPP film.

Properties:

- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Good sealing strength
- Intended for contact with food
- Standard C.O.F. for packaging machines
- Treated surface with excellent adhesion to ink or adhesive
- High dimensional stability
- Good antistatic & antiblocking properties
- Good flatness of the film

Application:

- General heat-seal flexible packaging for food or non-food products
- High quality rotogravure & flexographic printing
- Suitable for VFFS and HFFS packaging machines



→ Treated, printable layer
→ Additive modified layer
→ Heat-sealable layer



Properties	Unit	Test Method	Typical Value				
Thickness	-	μm	ISO 4593	20	25	30	40
Thickness Deviation	-	%	ISO 4593	±5			
Grammage	-	g/m ²	FST	18.2	22.75	27.3	36.4
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	≥38
Haze	-	%	ASTM D1003	1.2	1.5	1.8	2.2
Gloss	45°	Ga	ASTM D2457	100	100	100	100
Tensile Strength	MD	MPa	ISO 527	140	140	140	140
	TD			280	280	280	280
Tensile Elongation	MD	%		180	180	180	180
	TD			60	60	60	60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4	4
	TD			2	2	2	2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥120	≥120	≥120	≥120
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	3	3.5	4	4.5
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800	1700	1600	1400
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6	4.5	4	3

T: treated side UT: untreated side MD: machine direction TD: transverse direction



TN21

Co-extruded, both sides heat-sealable, one side treated transparent BOPP film.

Properties:

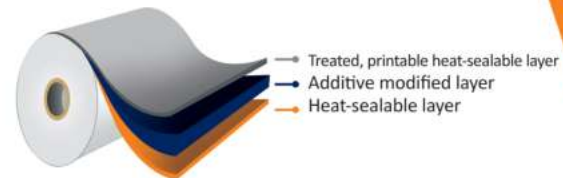
- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Good sealing strength
- Intended for contact with food
- Standard C.O.F. for packaging machines
- Treated surface with excellent adhesion to ink or adhesive
- High dimensional stability
- Good antistatic & antiblocking properties
- Good flatness of the film

Application:

- General flexible packaging for food or non-food products
- High quality rotogravure & flexographic printing
- Suitable for VFFS and HFFS packaging machines
- Lamination or use in single-web packaging

Properties	Unit	Test Method	Typical Value					
Thickness	-	µm	ISO 4593	20	25	30	40	50
Thickness Deviation	-	%	ISO 4593	±5				
Grammage	-	g/m ²	FST	18.2	22.75	27.3	36.4	45.5
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	≥38	≥38
Haze	-	%	ASTM D1003	1.3	1.6	1.9	2.1	2.4
Gloss	45°	Ga	ASTM D2457	100	100	100	100	100
Tensile Strength	MD	MPa	ISO 527	140	140	140	140	140
	TD			280	280	280	280	280
Tensile Elongation	MD	%		180	180	180	180	180
	TD			60	60	60	60	60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4	4	4
	TD			2	2	2	2	2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥120	≥120	≥120	≥120	≥120
	T-T			≥124	≥124	≥124	≥124	≥124
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	3	3.5	4	4.5	5
OTR	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800	1700	1600	1400	1100
WVTR	38°C, 90 %RH	g/m ² /day	ASTM F1249	6	4.5	4	3	2.5

T: treated side UT: untreated side MD: machine direction TD: transverse direction



TN02

Non-heat sealable plain, both sides treated, transparent BOPP film.

Properties:

- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- High dimensional stability
- Good antistatic & antiblocking properties
- Good flatness of the film

Application:

- Lamination on paper and cardboard



Properties		Unit	Test Method	Typical Value		
Thickness	-	µm	ISO 4593	10	12	15
Thickness Deviation	-	%	ISO 4593	±5		
Grammage	-	g/m ²	FST	9.1	10.9	13.7
Surface Tension	F, B	Dynes/cm	ASTM D2578	≥38, ≥36	≥38, ≥36	≥38, ≥36
Haze	-	%	ASTM D1003	0.8	0.8	1
Gloss	45°	Ga	ASTM D2457	105	105	105
Tensile Strength	MD	MPa	ISO 527	140	140	140
	TD			280	280	280
Tensile Elongation	MD	%		180	180	180
	TD			60	60	60
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4
	TD			2	2	2

F: Front side B: Back side MD: machine direction TD: transverse direction

TN01

Non-heat-sealable plain, One side treated, transparent BOPP film.

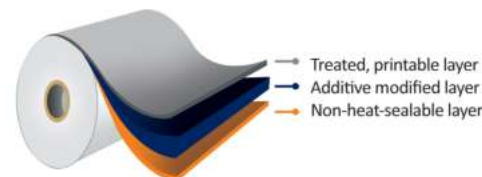


Properties:

- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Intended for contact with food
- Standard C.O.F. for packaging machines
- Treated surface with excellent adhesion to ink or adhesive
- High dimensional stability
- Good antistatic & anti-blocking properties
- Good flatness of the film

Application:

- Cold-seal packaging
- General wrapping
- High quality Rotogravure & flexographic printing
- Suitable for VFFS and HFFS packaging machines
- Self-Adhesive Labels, Roll fed wrap around label
- Packaging for food (ice cream, chocolate bar, wafer, snack, candy etc.)



Properties

Unit

Test Method

Typical Value

Properties	Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593
Thickness Deviation	-	%	ISO 4593
Grammage	-	g/m ²	FST
Surface Tension	T	Dynes/cm	ASTM D2578
Haze	-	%	ASTM D1003
Gloss	45°	Ga	ASTM D2457
Tensile Strength	MD	MPa	ISO 527
	TD		
Tensile Elongation	MD	%	ISO 527
	TD		
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204
	TD		
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249

T: treated side UT: untreated side MD: machine direction TD: transverse direction

* 40 µm film is designed to produce roll fed wrap around label

TL11

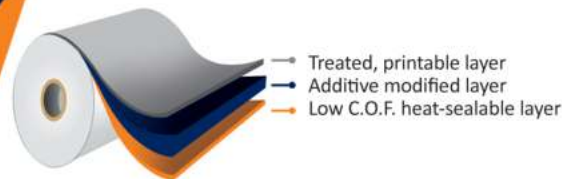
Co-extruded, one side heat sealable, other side treated transparent BOPP film with low Coefficient of friction.

Properties:

- Very Low C.O.F. enables high seed packaging
- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Good sealing strength
- Intended for contact with food
- Treated surface with excellent adhesion to ink or adhesive
- High dimensional stability
- Good antistatic & slip properties
- Good flatness of the film

Application:

- High speed heat-seal flexible packaging for food or non-food products
- High quality Rotogravure & flexographic printing
- Suitable for VFFS and HFFS packaging machines



Properties	Unit	Test Method	Typical Value				
Thickness	-	µm	ISO 4593	20	25	30	40
Thickness Deviation	-	%	ISO 4593	±5			
Grammage	-	g/m ²	FST	18.2	22.75	27.3	36.4
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	≥38
Haze	-	%	ASTM D1003	1.2	1.5	1.8	2.2
Gloss	45°	Ga	ASTM D2457	100	100	100	100
Tensile Strength	MD	MPa	ISO 527	140	140	140	140
	TD			280	280	280	280
Tensile Elongation	MD	%		180	180	180	180
	TD			60	60	60	60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.25	0.25	0.25	0.25
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4	4
	TD			2	2	2	2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥120	≥120	≥120	≥120
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	3	3.5	4	4.5
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800	1700	1600	1400
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6	4.5	4	3

T: treated side UT: untreated side MD: machine direction TD: transverse direction



CL20

Co-extruded, both side heat sealable, non-treated transparent BOPP film specially designed for cigarette over-wrapping.

Properties:

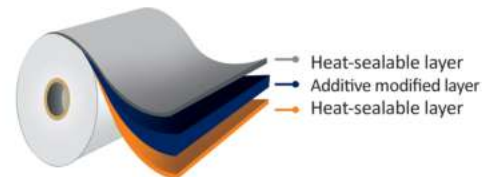
- Stable low coefficient of friction, including the heated surfaces
- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Good sealing strength
- High dimensional stability
- Good antistatic & antiblocking properties
- Good flatness of the film

Application:

- For over-wrapping of the “soft” and “rigid” cardboard packs and cigarette boxes on the horizontal high-speed machines

Properties	Unit	Test Method	Typical Value				
Thickness	-	µm	ISO 4593	15	20	25	30
Thickness Deviation	-	%	ISO 4593	±5			
Grammage	-	g/m ²	FST	13.7	18.2	22.75	27.3
Haze	-	%	ASTM D1003	2.4	2.6	2.8	3
Gloss	45°	Ga	ASTM D2457	85	85	85	85
Tensile Strength	MD	MPa	ISO 527	130	130	130	130
	TD			260	260	260	260
Tensile Elongation	MD	%		170	170	170	170
	TD			60	60	60	60
Coefficient of Friction (Dynamic)	Film/Film	-	ASTM D1894	0.2-0.25	0.2-0.25	0.2-0.25	0.2-0.25
Heat Shrinkage	MD	%	ASTM D1204	4	4	4	4
	TD			2	2	2	2
Heat Sealing Range	0.1 MPa	°C	FST	≥120	≥120	≥120	≥120
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	2	2.5	3	3
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800	1800	1700	1700
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	5	4.5	4	4

MD: machine direction TD: transverse directio



TP13

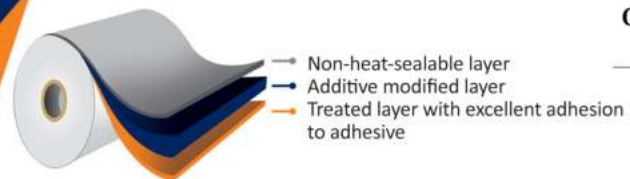
One side treated; transparent BOPP film intended for use in production of adhesive tapes.

Properties:

- Excellent optical properties: low haze and high transparency and gloss
- Excellent mechanical properties
- Excellent machinability & handling properties
- Treated surface with excellent adhesion to adhesive
- Excellent dimensional stability
- Good antistatic & anti-blocking properties
- Good flatness of the film

Application:

- Production of adhesive tapes with hot melt and water-based adhesives



Properties		Unit	Test Method	Typical Value			
Thickness	-	μm	ISO 4593	22	23	24	28
Thickness Deviation	-	%	ISO 4593	±5			
Grammage	-	g/m ²	FST	20	20.9	20.7	25.5
Surface tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	≥38
Haze	-	%	ASTM D1003	1.3	1.3	1.4	1.7
Gloss	45°	Ga	ASTM D2457	100	100	100	100
Tensile Strength	MD	MPa	ISO 527	140	140	140	140
	TD			280	280	280	280
Tensile Elongation	MD	%		180	180	180	180
	TD			60	60	60	60
Coefficient of friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4	4
	TD			2	2	2	2



SN11

Co-extruded, one side heat-sealable matt, the other side treated BOPP film.

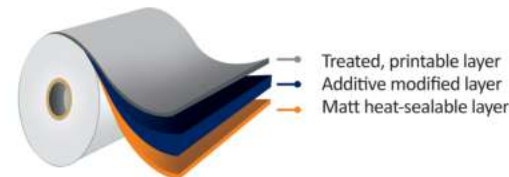
Properties:

- Excellent matt appearance with high haze
- Excellent mechanical properties
- Excellent machinability & handling properties
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & antiblocking properties

Application:

- General heat-seal flexible packaging for food or non-food products with matt appearance
- High quality Rotogravure & flexographic printing
- Suitable for vertical VFFS and horizontal HFFS packaging machines
- Lamination to wide range of substrates including BOPP & BOPET film, paper & board

Properties		Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593	20
Thickness Deviation	-	%	ISO 4593	±5
Surface Tension	T	Dynes/cm	ASTM D2578	≥38
Haze	-	%	ASTM D1003	75
Gloss	45°- UT	Ga	ASTM D2457	10
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%		180
	TD			60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4-0.5
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥125
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	2.5
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6



T: treated side UT: untreated side MD: machine direction TD: transverse direction

SN02

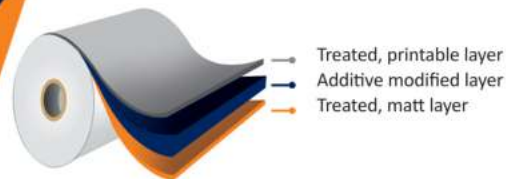
Non-heat sealable plain, both side treated matt Bopp film.

Properties:

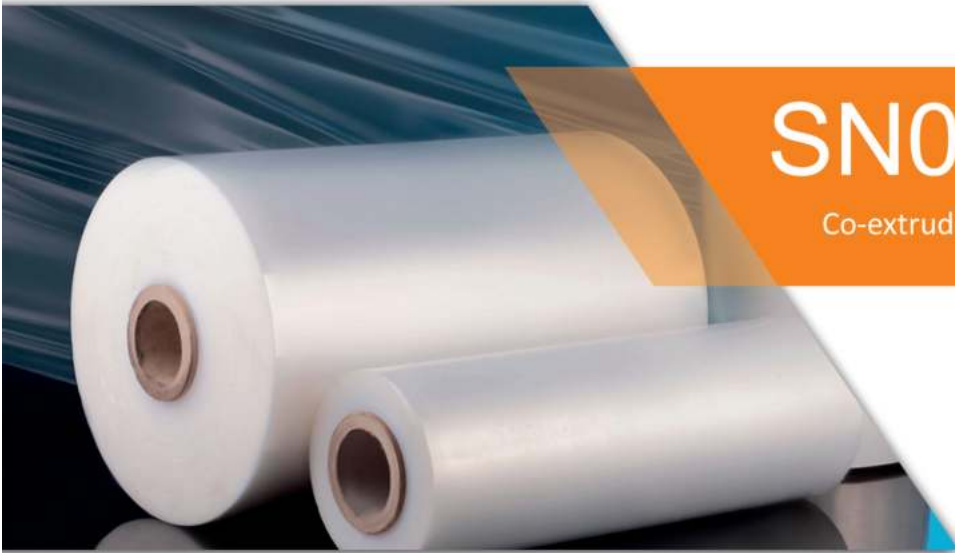
- Excellent matt appearance with high haze
- Excellent mechanical properties
- Excellent machinability & handling properties
- Standard C.O.F. throughout printing & lamination process
- Treated surfaces with excellent adhesion to ink or adhesives
- Excellent dimensional stability
- Good antistatic & antiblocking properties

Application:

- Lamination on paper, cardboard, polymeric films and other substrates



Properties	Unit	Test Method	Typical Value		
Thickness	-	µm	ISO 4593	12	15
Thickness Deviation	-	%	ISO 4593	±5	
Surface Tension	G, M	Dynes/cm	ASTM D2578	≥38, ≥36	≥38, ≥36
Haze	-	%	ASTM D1003		
Gloss	45°- M	Ga	ASTM D2457	10	10
Tensile Strength	MD	MPa	ISO 527	140	140
	TD			280	280
Tensile Elongation	MD	%		180	180
	TD			60	60
Coefficient of Friction (Dynamic)	M-M	-	ASTM D1894	0.4-0.5	0.4-0.5
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4
	TD			2	2



SN01

Co-extruded, one side matt release layer, the other side treated BOPP film.

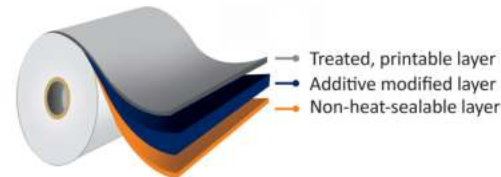
Properties:

- Matt layer with Excellent cold seal release performance
- Excellent matt appearance with high haze
- Excellent mechanical properties
- Excellent machinability & handling properties
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Excellent antistatic & antiblocking properties

Application:

- General cold seal packaging for chocolate & confectionary with matt appearance
- High quality Rotogravure & flexographic printing

Properties		Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593	20
Thickness Deviation	-	%	ISO 4593	±5
Surface Tension	T	Dynes/cm	ASTM D2578	≥38
Haze	-	%	ASTM D1003	75
Gloss	45°- UT	Ga	ASTM D2457	10
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%		180
	TD			60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1800
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6



T: treated side UT: untreated side MD: machine direction TD: transverse direction

PN11

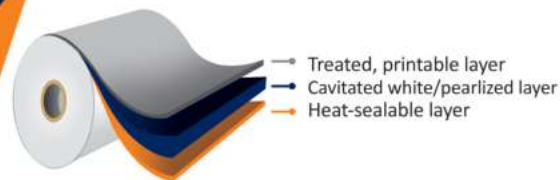
Co-extruded, one side heat-sealable, the other side treated white/pearlized BOPP film.

Properties:

- Good light protection and high opacity, whiteness and gloss
- High yield
- Excellent machinability & handling properties
- Good sealing strength
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & slip properties
- White color improves printing quality
- Good flatness of the film

Application:

- Packaging for food (ice cream, chocolate bar, wafer, snack, candy etc.) which requires protection from normal & UV light
- Heat-seal packaging of non-food products (cosmetics, Hygienics etc.)
- High quality rotogravure & flexographic printing
- Suitable for vertical VFFS and horizontal HFFS packaging machines
- Lamination



Properties	Unit	Test Method	Typical Value				
Thickness	-	μm	ISO 4593	30	35	40	
Thickness Deviation	-	%	ISO 4593	±5			
Yield	-	m ² /kg	ASTM D4321	47.6	40.8	35.7	
Grammage	-	g/m ²	FST	21.0	24.5	28.0	
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	
Light Transmission	-	%	ASTM D1003	40	38	35	
Gloss	45°	Ga	ASTM D2457	70	70	70	
Tensile Strength	MD	MPa	ISO 527	70	70	70	
	TD			150	150	150	
Tensile Elongation	MD	%		140	140	140	
	TD			40	40	40	
Coefficient of Friction (Dynamic)	UT-UT	-		ASTM D1894	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%		ASTM D1204	4	4	4
	TD		2		2	2	
Heat Sealing Range	UT-UT 0.1 MPa	°C	FST	≥120	≥120	≥120	
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	4	4	4.5	
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1900	1700	1600	
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6	5	4.5	

T: treated side UT: untreated side MD: machine direction TD: transverse direction



PN21

Co-extruded, both sides heat sealable, one side treated white/pearlized BOPP film.

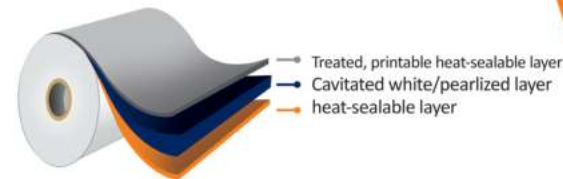
Properties:

- Excellent light protection and high opacity, whiteness and gloss
- Excellent machinability & handling properties
- Good sealing strength of both sides
- Intended for contact with food
- Standard C.O.F. throughout printing process
- Treated surface with excellent adhesion to ink
- Excellent dimensional stability
- Good antistatic & antiblocking properties
- White color improves printing quality
- Good flatness of the film

Application:

- Packaging for food (ice cream, chocolate bar, wafer, snack, candy etc.) which requires protection from normal & UV light
- Heat seal packaging of non-food products (cosmetics, Hygienics etc.)
- High quality rotogravure & flexographic printing
- Suitable for vertical VFFS and horizontal HFFS packaging machines

Properties	Unit	Test Method	Typical Value		
Thickness	-	µm	ISO 4593	20	25
Thickness Deviation	-	%	ISO 4593	±5	
Grammage	-	g/m ²	FST	18.5	23.1
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38
Light Transmission	-	%	ASTM D1003	30	30
Gloss	45°	Ga	ASTM D2457	70	70
Tensile Strength	MD	MPa	ISO 527	120	120
	TD			230	230
Tensile Elongation	MD	%		160	160
	TD			40	40
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4
	TD			2	2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥120	≥120
	T-T			≥124	≥124
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	3.5	4
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	2000	1900
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	7	6



T: treated side UT: untreated side MD: machine direction TD: transverse direction

PL11

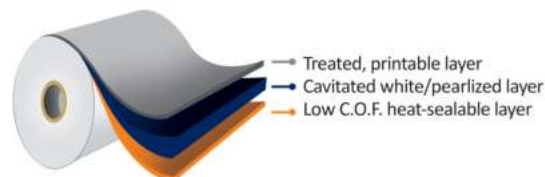
Co-extruded, one side heat sealable, the other side treated white/pearlized BOPP film with low Coefficient of friction.

Properties:

- Good light protection and high opacity, whiteness and gloss
- Very Low C.O.F. enables high speed packaging
- High yield
- Excellent machinability & handling properties
- Good sealing strength
- Intended for contact with food
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & antiblocking properties
- White color improves printing quality
- Good flatness of the film

Application:

- High speed packaging for food (ice cream, chocolate bar, wafer, snack, candy etc.) which requires protection from normal & UV light
- Heat seal packaging of non-food products (cosmetics, Hygienics etc.)
- High quality rotogravure & flexographic printing
- Suitable for vertical VFFS and horizontal HFFS packaging machines
- Lamination



Properties	Unit	Test Method	Typical Value				
Thickness	-	µm	ISO 4593	30	35	40	
Thickness Deviation	-	%	ISO 4593	±5			
Yield	-	m ² /kg	ASTM D4321	47.6	40.8	35.7	
Grammage	-	g/m ²	FST	21	24.5	28	
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38	≥38	
Light Transmission	-	%	ASTM D1003	40	38	35	
Gloss	45°	Ga	ASTM D2457	70	70	70	
Tensile Strength	MD	MPa	ISO 527	70	70	70	
	TD			150	150	150	
Tensile Elongation	MD	%		140	140	140	
	TD			40	40	40	
Coefficient of Friction (Dynamic)	UT-UT	-		ASTM D1894	0.3	0.3	0.3
Heat Shrinkage 120°C, 5min	MD	%		ASTM D1204	4	4	4
	TD		2		2	2	
Heat Sealing Range	UT-UT	°C	FST	≥120	≥120	≥120	
	0.1 MPa						
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	4	4	4.5	
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	1900	1700	1600	
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	6	5	4.5	

T: treated side

UT: untreated side

MD: machine direction

TD: transverse direction



PN01

Plain non-heat sealable, one side treated, white/pearlized BOPP film.

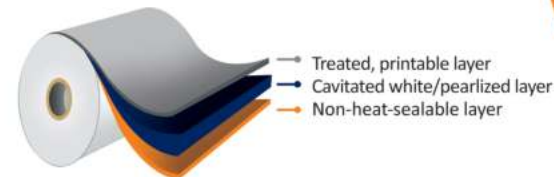
Properties:

- Good light protection and high opacity, whiteness and gloss
- High yield
- Excellent machinability & handling properties
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surfaces with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & antiblocking properties
- White color improves printing quality
- Good flatness of the film

Application:

- Wrap around labels for containers of soft drinks, mineral water etc
- High quality rotogravure & flexographic printing

Properties		Unit	Test Method	Typical Value	
Thickness	-	µm	ISO 4593	38	55
Thickness Deviation	-	%	ISO 4593	±5	
Yield	-	m ² /kg	ASTM D4321	37.5	25.9
Grammage	-	g/m ²	FST	26.6	38.5
Surface Tension	T	Dynes/cm	ASTM D2578	≥38	≥38
Light Transmission	-	%	ASTM D1003	35	30
Gloss	45°	Ga	ASTM D2457	72	72
Tensile Strength	MD	MPa	ISO 527	70	70
	TD			150	150
Tensile Elongation	MD	%		150	150
	TD			40	40
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4
	TD			2	2



MN11

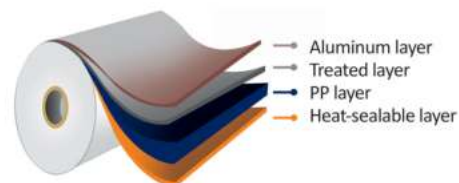
Co-extruded, one side heat-sealable, the other side metallized BOPP film.

Properties:

- Mirrored bright metallic appearance
- Excellent moisture, oxygen & light barrier
- Excellent heat reflection properties
- Good sealing strength
- Excellent mechanical properties
- Excellent metal adhesion to film
- Standard C.O.F. throughout printing & lamination process
- Excellent machinability & handling properties
- Metallized surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability

Application:

- General heat-seal flexible packaging
- Packaging for food products which requires oxygen & moisture protection
- Lamination & Conversion
- Paper and film lamination
- Suitable for vertical VFFS and horizontal HFFS packaging machines



Properties		Unit	Test Method	Typical Value		
Thickness	-	µm	ISO 4593	20	25	30
Thickness Deviation	-	%	ISO 4593	±5		
Grammage	-	g/m ²	FST	18.2	22.75	27.3
Optical Density	-	%	ASTM D1003	2	2	2
Tensile Strength	MD	MPa	ISO 527	140	140	140
	TD			280	280	280
Tensile Elongation	MD	%		180	180	180
	TD			60	60	60
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.4	0.4	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4	4	4
	TD			2	2	2
Heat Sealing Range 0.1 Mpa	UT-UT	°C	FST	≥120	≥120	≥120
	0.1 Mpa					
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	3	3.5	4
O.T.R.	23 °C, 0 %RH	cm ³ /m ² /day	ASTM D3985	100	80	75
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	1	0.9	0.8

T: treated side UT: untreated side MD: machine direction TD: transverse direction



T102

Co-extruded, both sides treated (one side printable) transparent BOPP film for injection molding labeling.

Properties:

- Excellent optical properties: low haze and high transparency and gloss
- Excellent machinability & handling properties
- Good die cutting
- Printable surface with excellent adhesion to ink
- Non-printable treated surface suitable for fusion with PP container
- High dimensional stability
- Good antistatic properties

Properties	Unit	Test Method	Typical Value	
Thickness	-	µm	ISO 4593	60
Thickness Deviation	-	%	ISO 4593	±5
Yield	-	m ² /kg	ASTM D4321	18.3
Grammage	-	g/m ²	FST	54.6
Surface Tension	F	Dynes/cm	ASTM D2578	≥38
	B			≥36
Haze	-	%	ASTM D1003	2.7
Gloss	45°	Ga	ASTM D2457	100
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%	ISO 527	180
	TD			60
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2

Application:

- In-mold labels for PP Injection molding
- High quality rotogravure & flexographic printing



SI02

Co-extruded, both sides treated (one side printable) matt BOPP film for injection molding labeling.

Properties:

- Excellent matt appearance of molded label
- Excellent machinability & handling properties
- Good die cutting
- Printable surface with excellent adhesion to ink
- Non-printable treated surface suitable for fusion with PP container
- High dimensional stability
- Good antistatic properties

Application:

- In-mold labels for PP Injection molding
- High quality rotogravure & flexographic printing



Properties		Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593	57
Thickness Deviation	-	%	ISO 4593	±5
Yield	-	m ² /kg	ASTM D4321	20
Grammage	-	g/m ²	FST	50.1
Surface Tension	F	Dynes/cm	ASTM D2578	≥38
	B			≥36
Gloss 45°	F	Ga	ASTM D2457	55
	B			10
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%	ISO 527	180
	TD			60
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4-0.5
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2

F: Front (printable) side B: Back (non-printable) side MD: machine direction TD: transverse direction



PI02

Co-extruded, both sides treated (one side printable) highly cavitated white/pearlized BOPP film for injection molding labeling.

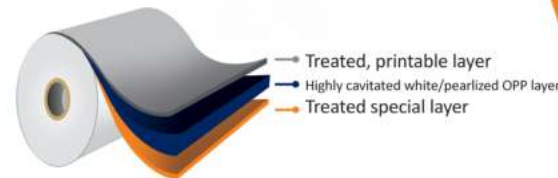
Properties:

- High opacity and gloss
- Very high yield
- Excellent machinability & handling properties
- Good die cutting
- Printable surface with excellent adhesion to ink
- Non-printable treated surface suitable for fusion with PP container
- High dimensional stability
- White pearlescent appearance
- Good antistatic properties

Application:

- In-mold labels for PP Injection molding
- High quality rotogravure & flexographic printing

Properties	Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593 60 65 70
Thickness Deviation	-	%	ISO 4593 ±5
Yield	-	m ² /kg	ASTM D4321 30.3 28 26
Grammage	-	g/m ²	FST 33 35.8 38.5
Surface Tension	F	Dynes/cm	ASTM D2578 ≥38 ≥38 ≥38
	B		
Light Transmission	-	%	ASTM D1003 26 25 24
Gloss	45°	Ga	ASTM D2457 70 70 70
Tensile Strength	MD	MPa	ISO 527 60 60 60
	TD		
Tensile Elongation	MD	%	140 140 140
	TD		
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894 0.4-0.5 0.4-0.5 0.4-0.5
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204 4 4 4
	TD		



F: Front (printable) side B: Back (non-printable) side MD: machine direction TD: transverse direction

TC02

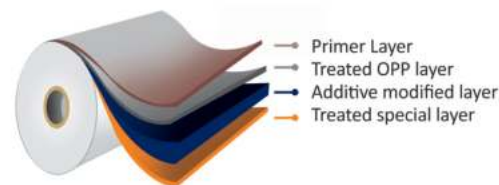
Co-extruded, one sides chemically treated the other side corona treated transparent BOPP film for self-adhesive labeling.

Properties:

- Excellent optical properties: high transparency and gloss
- Good mechanical properties
- Good die cutting
- Primer-coated surface with excellent adhesion to UV ink and other ink systems
- Corona treated surface suitable for adhesive receptivity
- High dimensional stability
- Good antistatic properties

Application:

- Transparent self-adhesive labels (SAL)
- Rotogravure, flexographic, off-set or UV printing



Properties		Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593	60
Thickness Deviation	-	%	ISO 4593	±5
Yield	-	m ² /kg	ASTM D4321	18.3
Grammage	-	g/m ²	FST	54.6
Surface Tension	F	Dynes/cm	ASTM D2578	Chemically treated
	B			≥36
Haze	-	%	ASTM D1003	4
Gloss	45°	Ga	ASTM D2457	85
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%		180
	TD			60
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2

F: Front (printable) side B: Back (non-printable) side MD: machine direction TD: transverse direction



PC02

Co-extruded, one sides chemically treated the other side corona treated white/pearlized BOPP film for self-adhesive labeling.

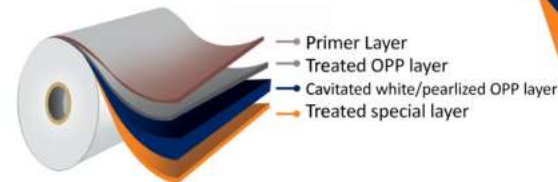
Properties:

- Excellent opacity and gloss
- High yield
- Good mechanical properties
- Good die cutting
- Primer-coated surface with excellent adhesion to UV ink and other ink systems
- Corona treated surface suitable for adhesive receptivity
- White pearlescent appearance
- High dimensional stability
- Good antistatic properties

Application:

- Production of self-adhesive labels (SAL)
- Rotogravure, flexographic, off-set or UV printing

Properties	Unit	Test Method	Typical Value	
Thickness	-	µm	ISO 4593	70
Thickness Deviation	-	%	ISO 4593	±5
Yield	-	m ² /kg	ASTM D4321	19
Grammage	-	g/m ²	FST	52.5
Surface Tension	F	Dynes/cm	ASTM D2578	Chemically treated
	B			≥36
Light Transmission	-	%	ASTM D1003	25
Gloss	45°	Ga	ASTM D2457	65
Tensile Strength	MD	MPa	ISO 527	70
	TD			160
Tensile Elongation	MD	%	ISO 527	140
	TD			40
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4-0.5
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2



MC02

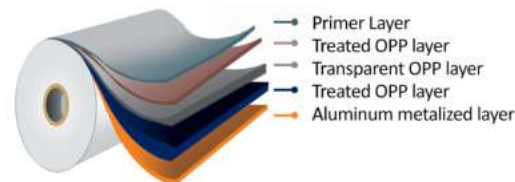
Co-extruded, one sides chemically treated the other side metalized BOPP film for self-adhesive labeling.

Properties:

- Mirrored bright metallic appearance
- Excellent metal adhesion to film
- Good mechanical properties
- Good die cutting
- Primer-coated surface with excellent adhesion to UV ink and other ink systems
- High dimensional stability
- Good antistatic properties

Application:

- Metalized self-adhesive labels (SAL)
- Rotogravure, flexographic, off-set or UV printing



Properties		Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593	50
Thickness Deviation	-	%	ISO 4593	±5
Yield	-	m ² /kg	ASTM D4321	22
Grammage	-	g/m ²	FST	45.5
Surface Tension	F	Dynes/cm	ASTM D2578	Chemically treated
Optical Density	-	-	ASTM D1003	2
Tensile Strength	MD	MPa	ISO 527	140
	TD			280
Tensile Elongation	MD	%		180
	TD			60
Coefficient of Friction (Dynamic)	B-B	-	ASTM D1894	0.4
Heat Shrinkage 120°C, 5min	MD	%	ASTM D1204	4
	TD			2

F: Front (coated) side B: Back (metalized) side MD: machine direction TD: transverse direction

KARAFIDAR



Kara Fidar commenced CPP film producing with a capacity of 6000 tons / year in 15 microns to 85 microns, in 2019 alongside the other previous products, DOP oil and PVC granule. With increasing the production volume by new machines, this company's capacity reached 15000 tons/year from 2022 .

KTN11

Co-extruded, one side heat-sealable, the other side treated transparent CPP film.

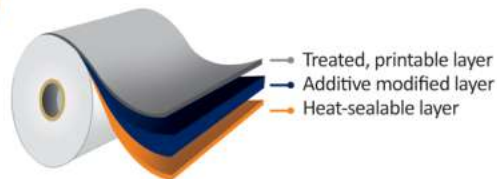


Properties:

- Excellent optical properties; low haze and high transparency and gloss
- Good tear and puncture resistance
- Excellent machinability & handling properties
- Superior sealing strength
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & slip properties

Application:

- General heat-seal flexible packaging
- High quality rotogravure & flexographic printing
- Lamination
- Board lamination
- Direct food packaging (pasta, bakery, etc.)
- Jumbo packs (snack food, diapers, etc.)
- Textile & Flower wrapping



Properties		Unit	Test Method	Typical Value			
Thickness	-	µm	ISO 4593	20	25	30	
Thickness Deviation	-	%	ISO 4593	±5			
Grammage	-	g/m ²	KST	18.2	22.75	27.3	
Surface Tension	T	Dynes/cm	ASTM D2578	≥36	≥36	≥36	
Haze	-	%	ASTM D1003	1.8	2	2.5	
Gloss	45°	Ga	ASTM D2457	80	80	80	
Tensile Strength	MD	MPa	ISO 527	40	40	40	
	TD			30	30	30	
Tensile Elongation	MD	%		500	500	500	
	TD			550	550	550	
Coefficient of Friction (Dynamic)	UT-UT	-		ASTM D1894	≤0.2	≤0.2	≤0.2
Heat Shrinkage 130°C, 7min	MD	%		ASTM D1204	3	3	3
	TD		2		2	2	
Heat Sealing Range 0.1 Mpa	UT-UT	°C	KST	≥120	≥120	≥120	
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	17	18	18	
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	10	9	8.5	

T: treated side UT: untreated side MD: machine direction TD: transverse direction

KTN21

Co-extruded, both side heat-sealable, one side treated transparent CPP film.

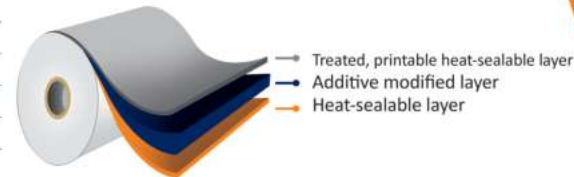
Properties:

- Excellent optical properties; low haze and high transparency and gloss
- Good tear and puncture resistance
- Excellent machinability & handling properties
- Superior sealing strength
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- Good antistatic & anti-blocking properties

Application:

- General heat seal flexible packaging
- High quality rotogravure & flexographic printing
- Lamination or use in single-web packaging
- Board lamination
- Direct food packaging (pasta, bakery, etc.)
- Jumbo packs (snack food, diapers, etc.)
- Textile & Flower wrapping

Properties	Unit	Test Method	Typical Value							
Thickness	-	µm	ISO 4593	20	23	25	30	50	70	
Thickness Deviation	-	%	ISO 4593	±5						
Grammage	-	g/m ²	KST	18.2	20.8	22.75	27.3	45.5	63.7	
Surface Tension	T	Dynes/cm	ASTM D2578	≥36	≥36	≥36	≥36	≥36	≥36	
Haze	-	%	ASTM D1003	1.9	2.1	2.4	3.2	4.1	6.5	
Gloss	45°	Ga	ASTM D2457	80	80	80	80	80	75	
Tensile Strength	MD	MPa	ISO 527	40	40	40	40	40	40	
	TD			30	30	30	30	30	30	
Tensile Elongation	MD	%		500	500	500	500	500	500	
	TD			550	550	550	550	550	550	
Coefficient of Friction (Dynamic)	UT-UT	-		ASTM D1894	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Heat Shrinkage 130°C, 7min	MD	%		ASTM D1204	3	3	3	3	3	3
	TD		2		2	2	2	2	2	
Heat Sealing Range 0.1 Mpa	UT-UT	°C	KST	≥120	≥120	≥120	≥120	≥122	≥122	
	T-T			≥131	≥131	≥131	≥131	≥133	≥133	
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	17	17	18	18	18	18	
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	10	10	9	8.5	8	8	



T: treated side UT: untreated side MD: machine direction TD: transverse direction

KTB11

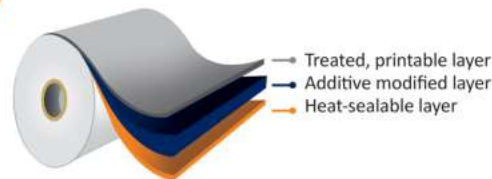
Co-extruded, one side heat sealable, the other side treated transparent CPP film intended for packing of bread.

Properties:

- Good optical properties; low haze and high transparency and gloss
- Good impact resistance
- Excellent machinability & handling properties
- Superior sealing strength
- Intended for contact with food
- Low C.O.F. for high speed packaging
- Treated surface with excellent adhesion to ink
- Good antistatic & antiblocking properties

Application:

- General purpose packaging of bread
- High quality rotogravure & flexographic printing



Properties		Unit	Test Method	Typical Value	
Thickness	-	µm	ISO 4593	25	33
Thickness Deviation	-	%	ISO 4593	±5	
Grammage	-	g/m ²	KST	22.75	30
Surface Tension	T	Dynes/cm	ASTM D2578	≥36	≥36
Haze	-	%	ASTM D1003	2	2.8
Gloss	45°	Ga	ASTM D2457	80	80
Tensile Strength	MD	MPa	ISO 527	40	40
	TD			30	30
Tensile Elongation	MD	%		500	500
	TD			550	550
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	≤0.2	≤0.2
Heat Shrinkage 130°C, 7min	MD	%	ASTM D1204	3	3
	TD			2	2
Heat Sealing Range	UT-UT	°C	KST	≥120	≥120
	0.1 MPa				
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	18	18
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	9	8



KEN11

Co-extruded, one side heat sealable easy-peel sealant, the other side treated CPP film.

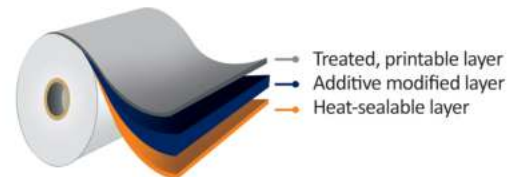
Properties:

- Stable performance of easy peeling on PP substrates
- Superior protection and sealing strength
- Good tear and puncture resistance
- Excellent machinability & handling properties
- Intended for contact with food
- Treated surface with excellent adhesion to ink or adhesive
- Suitable for high-temperature sterilization

Properties	Unit	Test Method	Typical Value
Thickness	-	µm	ISO 4593 25 30 40
Thickness Deviation	-	%	ISO 4593 ±5
Grammage	-	g/m ²	FST 22.75 27.3 36.4
Surface Tension	T	Dynes/cm	ASTM D2578 ≥36 ≥36 ≥36
Haze	-	%	ASTM D1003 18 20 25
Gloss	45°, T	Ga	ASTM D2457 70 70 70
Tensile Strength	MD	MPa	ISO 527 38 38 38
	TD		
Tensile Elongation	MD	%	500 500 500
	TD		
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894 ≤0.25 ≤0.25 ≤0.25
Heat Sealing Range	UT-UT	°C	FST ≥130 ≥130 ≥130
	0.1 MPa		
Peeling Force	0.1 Mpa, 1 s	N/15mm	ASTM F88 6 6 6

Application:

- Easy-open packaging of food products containing desserts and snack, dairy, confectionary and in-cup drinks etc.
- Easy-open packaging of medical and pharmaceutical products
- Aluminum foil lamination



KPN11

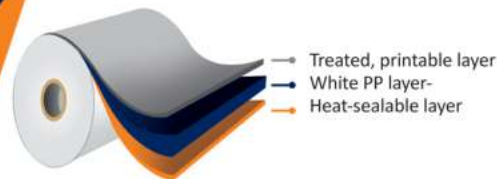
Co-extruded, one side heat sealable, the other side treated white CPP film.

Properties:

- Good light protection and high opacity, whiteness and gloss
- Good tear and puncture resistance
- High yield
- Excellent machinability & handling properties
- Superior sealing strength
- Intended for contact with food
- Standard C.O.F. throughout printing & lamination process
- Treated surface with excellent adhesion to ink or adhesive
- Excellent dimensional stability
- White color improves printing quality
- Good antistatic & antiblocking properties

Application:

- Packaging for food which requires protection from normal & UV light
- High quality rotogravure & flexographic printing
- Lamination for confectionary packaging
- Overwrapping





Properties	Unit	Test Method	Typical Value			
Thickness	-	µm	ISO 4593	25	30	35
Thickness Deviation	-	%	ISO 4593	±5		
Grammage	-	g/m ²	FST	25	30	35
Surface Tension	T	Dynes/cm	ASTM D2578	≥36	≥36	≥36
Light Transmission	-	%	ASTM D1003	45	40	35
Gloss	45°	Ga	ASTM D2457	40	40	40
Tensile Strength	MD	MPa	ISO 527	35	35	35
	TD			25	25	25
Tensile Elongation	MD	%		450	450	450
	TD			500	500	500
Coefficient of Friction (Dynamic)	UT-UT	-	ASTM D1894	0.2	0.2	0.2
Heat Shrinkage 130°C, 7min	MD	%	ASTM D1204	3	3	3
	TD			2	2	2
Heat Sealing Range	UT-UT	°C	FST	≥120	≥120	≥120
	0.1 MPa					
Seal Strength	0.1 Mpa, 1 s	N/25mm	ASTM F88	18	18	19
W.V.T.R.	38°C, 90 %RH	g/m ² /day	ASTM F1249	9	8.5	8

T: treated side UT: untreated side MD: machine direction TD: transverse direction

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