

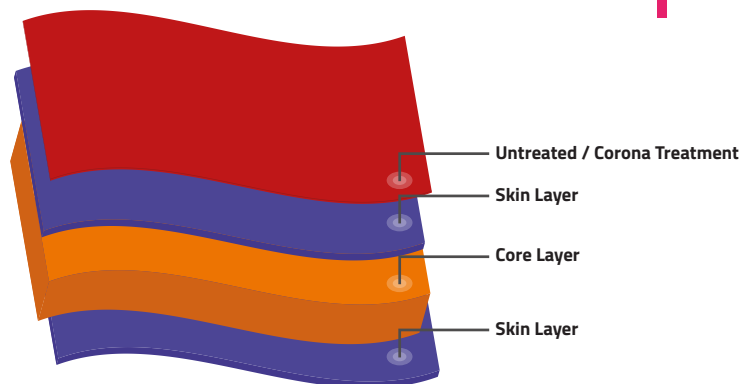
F-CLR OPTICALLY CLEAR FILM

F-CLR is a transparent low haze BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

KEY FEATURES:

- Excellent clarity
- Corona Treatment improves bonding
- Excellent machinability & handling properties

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Solvent & water base coating
- Embossing & Holograms

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES										
THICKNESS		Internal	Micron	9	10	11	12	15	19	23	25	30	36	50
			(Gauge)	36	40	44	48	60	76	92	100	120	144	200
YIELD		Internal	m² / kg	79.36	71.42	64.93	59.52	47.62	37.59	31.05	28.57	23.8	19.84	14.28
			in² /lb	55912	50318	45745	41934	33550	26483	21876	20119	16768	13978	10060
SURFACE TENSION (min)# (Corona Treated surface)		ASTM D-2578	dyne/cm	52										
COF (max) (Untreated to Untreated) (Untreated to Corona Treated)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.45	0.45	0.45
				0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.45	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	2.2	2.2	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.8	2.8
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900	1900	1900	1900	1900	1900	1900	1750	1750
	TD			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	100	100	105	105	110	115	115	120	120	125
	TD			80	80	85	85	85	85	90	90	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0										
	TD			1.0										
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	50	50	45	45	40	35	30	25	25	20	16
			(gm/100 in²/day)	3.2	3.2	2.9	2.9	2.6	2.3	2.0	1.6	1.6	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	155	130	130	110	90	80	75	75	70	45
			(cc/100 in²/day)	10.1	10.1	8.5	8.5	7.1	5.8	5.2	4.8	4.8	4.5	2.9

The inherent surface tension of the Untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

FOOD CONTACT

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

DISCLAIMER

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F-XLR

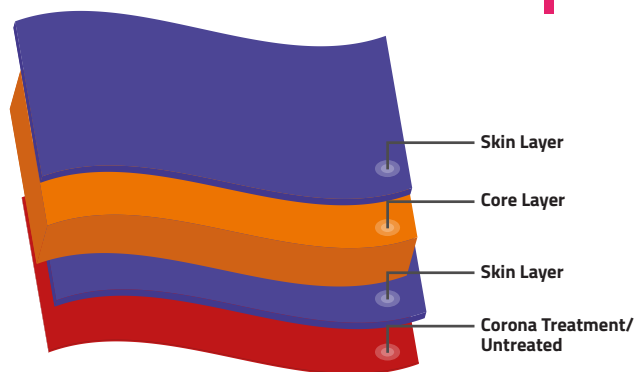
OPTICALLY EXTRA CLEAR FILM

F-XLR is an ultra-clear transparent BOPET film. The film is either both sides Untreated or one side Untreated with the other side Corona Treated.

KEY FEATURES:

- Very high clarity
- Corona treatment improves bonding
- Excellent machinability & handling properties

FILM STRUCTURE



APPLICATION:

- Conversion
- Printing & Lamination
- Form, Fill, & Seal Structures

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	12	23	30	36	50
			(Gauge)	48	92	120	144	200
YIELD		Internal	m ² / kg	59.52	31.05	23.80	19.84	14.28
			in ² / lb	41934	21876	16768	13978	10060
SURFACE TENSION (min) # (Corona Treated surface)		ASTM D-2578	dyne/cm	52				
COF (max) (One side to the other)		ASTM D-1894	-	0.50	0.50	0.50	0.45	0.45
HAZE (max)		ASTM D-1003	%	1.0	1.2	1.2	1.3	1.3
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1750	1750
	TD			2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	115	120	120	125
	TD			85	90	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0				
	TD			1.0				
MVTR 38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	30	25	20	16
			(gm/100 in ² /day)	2.9	2.0	1.6	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	80	75	70	45
			(cc/100 in ² /day)	8.5	5.2	4.8	4.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

MD = MACHINE DIRECTION, TD = TRANSVERSE DIRECTION

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FOOD CONTACT

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F-XLR-A1 & A2

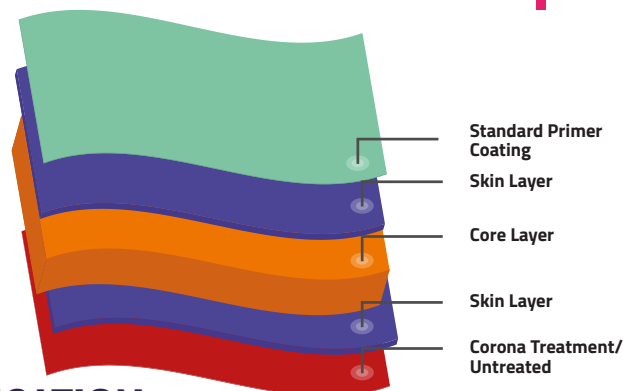
OPTICALLY EXTRA CLEAR FILM

F-XLR-A1 & A2 are transparent BOPET films. F-XLR-A1 is one side Corona Treated & the other side Standard Primer Coated. F-XLR-A2 is one side Untreated & the other side Standard Primer Coated.

KEY FEATURES:

- Very high clarity
- Chemical coating provides excellent adhesion with inks & adhesives
- Corona Treatment improves bonding
- Excellent machinability & handling properties

FILM STRUCTURE



APPLICATION:

- Conversion
- Printing & Lamination
- Form, Fill, & Seal Structures
- Hot fill, Pasteurization

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	9	12	19	23	36	50
			(Gauge)	36	48	76	92	144	200
YIELD		Internal	m ² / kg	79.36	59.52	37.59	31.05	19.84	14.28
			in ² /lb	55912	41934	26483	21876	13978	10060
SURFACE TENSION (min) # (Standard Primer Coated surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	40					
				52					
COF (max) (Standard Primer to Untreated) (Standard Primer to Corona Treated)		ASTM D-1894	-	0.45	0.45	0.45	0.45	0.45	0.45
				0.50	0.50	0.50	0.50	0.50	0.50
HAZE (max)		ASTM D-1003	%	1.0	1.0	1.1	1.1	1.3	1.3
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1900	1750	1750
	TD			2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	105	110	115	120	125
	TD			80	85	85	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0					
	TD			1.0					
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	50	45	35	30	20	16
			(gm/100 in ² /day)	3.2	2.9	2.3	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	90	80	70	45
			(cc/100 in ² /day)	10.1	8.5	5.8	5.2	4.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

FOOD CONTACT

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F-XLR-C1-C2

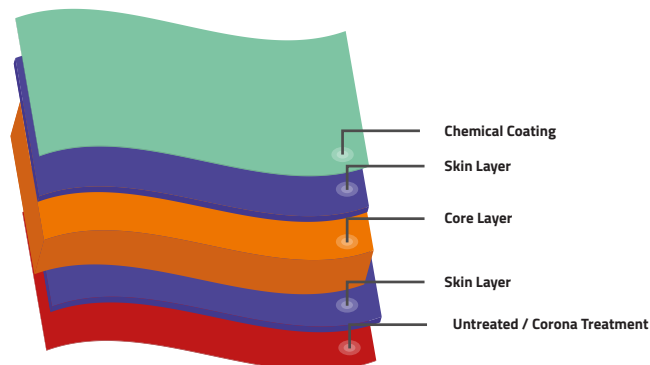
OPTICALLY EXTRA CLEAR CHEMICAL COATED BOPET FILM

F-XLR-C1-C2 is a Ultra clear BOPET film. The film is one side Chemically Coated and other side Corona Treated or Untreated.

KEY FEATURES:

- Very High transparency & clarity
- One side chemical coating provide excellent adhesion with various inks & adhesives
- Out side corona treated for improved bond with outer substrate
- Excellent machinability & handling properties
- Excellent metal adhesion
- Not suitable for hot filling, sterilization and pasteurization

FILM STRUCTURE



APPLICATION:

- Conversion
- Metallization, Solvent & water base coating
- Embossing & Holograms
- Printing & lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	23	36
			(Gauge)	48	92	144
YIELD		Internal	m ² / kg	59.52	31.05	19.84
			in ² /lb	41934	21876	13978
SURFACE TENSION # (Chemical Coated Side) (Corona Treated Side)		ASTM D-2578	-	60		
				52		
COF (max) (Coated to Untreated) (Coated to Corona Treated Side)		ASTM D-1894	-	0.50	0.45	0.45
				0.55	0.50	0.50
HAZE (max)		ASTM D-1003	%	1.0	1.2	1.3
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1750
	TD			2000	2000	2000
	MD		(Psi)	27000	27000	25000
	TD			28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	115	120
	TD			85	90	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0		
	TD			1.0		
W.V.T.R. (38° C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	30	20
			(gm/100 in ² /day)	2.9	2.0	1.3
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	80	70
			(cc/100 in ² /day)	8.5	5.2	4.5

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

SELEXIBLE need to be stored in a warehouse below 35°C (95° F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

FOOD CONTACT

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F-XLR-T1-T2

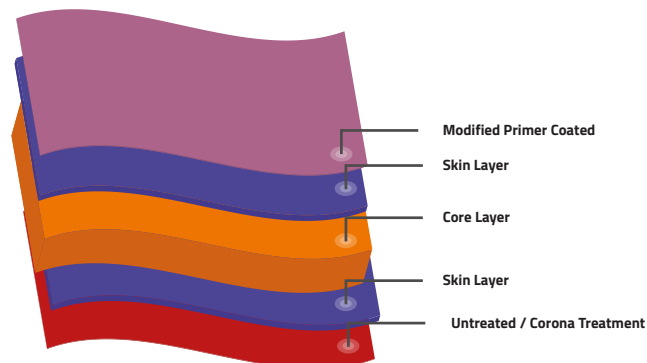
OPETICALLY EXTRA CLEAR MODIFIED PRIMER COATED BOPET FILM

F-XLR-T1-T2 is a Ultra clear BOPET film. The film is one side Modified Primer Coated and other side Corona Treated or Untreated.

KEY FEATURES:

- Very High transparency & clarity
- One side chemical coating provide excellent adhesion with various inks & adhesives
- Out side corona treated for improved bond with outer substrate
- Excellent machinability & handling properties
- Improved metal adhesion

FILM STRUCTURE



APPLICATION:

- Conversion, Metallization
- Printing & lamination
- FFS machine

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	23	36
			(Gauge)	48	92	144
YIELD		Internal	m ² / kg	59.52	31.05	19.84
			in ² /lb	41934	21876	13978
SURFACE TENSION # (Modified Primer Coated Side) (Corona Treated Side)		ASTM D-2578	-	52		
				52		
COF (max) (Coated to Untreated) (Coated to Corona Treated Side)		ASTM D-1894	-	0.50	0.50	0.50
				0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	1.0	1.2	1.3
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1750
	TD			2000	2000	2000
	MD		(Psi)	27000	27000	25000
	TD			28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	100	120	130
	TD			85	90	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0		
	TD			1.0		
W.V.T.R. (38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	30	20
			(gm/100 in ² /day)	2.9	2.0	1.3
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	80	70
			(cc/100 in ² /day)	8.5	5.2	4.5

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

SELEXIBLE need to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

FOOD CONTACT

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F-HTF

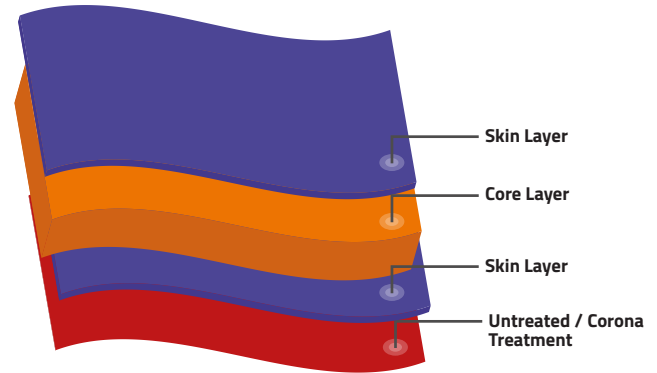
HOT STAMPING BASE FILM

F-HTF is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with other side Untreated.

KEY FEATURES:

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties

FILM STRUCTURE



APPLICATION:

- This grade of film is ideal as a transfer foil to transfer designs on paper, textile, or plastics

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES									
THICKNESS		Internal	Micron	11	11.5	12	15	19	23	36	45	50	60
			(Gauge)	44	46	48	60	76	92	144	180	200	240
YIELD		Internal	m ² / kg	64.93	62.11	59.52	47.62	37.59	31.05	19.84	15.87	14.28	11.9
			in ² /lb	45745	43736	41934	33550	26483	21876	13978	11181	10060	8384
SURFACE TENSION (min) # (Corona Treated surface)		ASTM D-2578	dyne/cm	52									
COF (max) (Corona Treated to Untreated) (Untreated to Untreated)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.45
				0.45	0.45	0.45	0.45	0.40	0.40	0.40	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.0	4.0	4.5	5.0	5.5	5.5	6.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1900	1900	1900	1750	1750	1750	1750
	TD			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	27000	27000	25000	25000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK	MD	ASTM D-882	%	100	100	105	105	110	115	120	125	125	130
	TD			85	85	85	85	85	90	90	90	95	100
LINEAR SHRINKAGE (max) (5 Minute at 190°C) (30 Minute at 150°C)	MD	ASTM D-1204	%	5.0	5.0	5.0	5.0	5.0	5.0	-	-	-	-
	TD			0.6	0.6	0.6	0.6	0.6	0.6	-	-	-	-
	MD			-	-	-	-	-	-	2.0	2.0	2.0	2.0
	TD			-	-	-	-	-	-	0.8	0.8	0.8	0.8
MVTR (38° C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	45	45	40	35	30	20	18	16	10
			(gm/100 in ² /day)	2.9	2.9	2.9	2.6	2.3	2.0	1.3	1.2	1.0	0.6
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	130	130	110	90	80	70	46	45	36
			(cc/100 in ² /day)	8.5	8.5	8.5	7.1	5.8	5.2	4.5	3.0	2.9	2.4

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

FOOD CONTACT

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F-HTF-A1 & A2

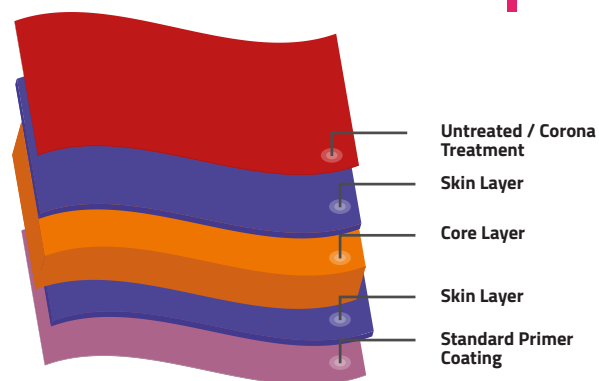
PRIMER COATED HOT STAMPING BASE FILM

F-HTF-A1 & A2 is a transparent BOPET film. F-HTF-A1 film is one side Corona treated & other the side Standard Primer Coated. F-HTF-A2 film is one side Untreated & other the side Standard Primer Coated.

KEY FEATURES:

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties

FILM STRUCTURE



APPLICATION:

- This grade of film is ideal as a transfer foil to transfer designs on paper, textile, or plastics

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES							
THICKNESS		Internal	Micron	11	12	15	19	23	36	45	50
			(Gauge)	44	48	60	76	92	144	180	200
YIELD		Internal	m² / kg	64.93	59.52	47.62	37.59	31.05	19.84	15.87	14.28
			in² /lb	45745	41934	33550	26483	21876	13978	11181	10060
SURFACE TENSION (min) # (Standard Primer Coated surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	40							
				52							
COF (max) (Standard Primer to Corona Treated) (Standard Primer to Untreated)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45
				0.45	0.45	0.45	0.40	0.40	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.0	4.5	5.0	5.5	5.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900	1900	1900	1750	1750	1750
	TD			2000	2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	27000	25000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	100	105	105	110	115	120	125	125
	TD			85	85	85	85	90	90	90	95
LINEAR SHRINKAGE (max) (5 Minute at 190°C) (30 Minute at 150°C)	MD	ASTM D-1204	%	5.0	5.0	5.0	5.0	5.0	-	-	-
	TD			0.6	0.6	0.6	0.6	0.6	-	-	-
	MD			-	-	-	-	-	2.0	2.0	2.0
	TD			-	-	-	-	-	0.8	0.8	0.8
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	45	45	40	35	30	20	18	16
			(gm/100 in²/day)	2.9	2.9	2.6	2.3	2.0	1.3	1.2	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	130	110	90	80	70	55	45
			(cc/100 in²/day)	8.5	8.5	7.1	5.8	5.2	4.5	3.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

FOOD CONTACT

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

DISCLAIMER

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F-SLC

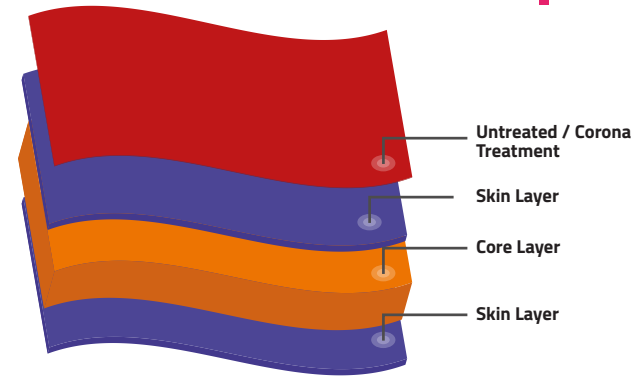
SILICON COATABLE FILM

F-SLC is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated.

KEY FEATURES:

- High mechanical strength & durability
- Good clarity
- Excellent machinability properties
- Good thermal & dimensional stability

FILM STRUCTURE



APPLICATION:

- This film grade is specially designed for silicon coating applications

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	19	23	30	36	50
			(Gauge)	76	92	120	144	200
YIELD		Internal	m ² / kg	37.59	31.05	23.80	19.84	14.28
			in ² / lb	26483	21876	16768	13978	10060
SURFACE TENSION (min) # (Corona side)		ASTM D-2578	dyne/cm	52				
COF (max) (Untreated to Untreated) (Untreated to Corona Treated)		ASTM D-1894	-	0.40	0.40	0.40	0.35	0.35
				0.40	0.40	0.40	0.40	0.40
HAZE (min)		ASTM D-1003	%	4.0	5.0	5.5	6.0	7.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	2100	2100	2100	2100	1900
	TD			2000	2000	2000	2000	2000
	MD		(Psi)	30000	30000	30000	30000	27000
	TD			28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	115	120	125	125
	TD			90	90	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0				
	TD			0.0				
MVTR 38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	35	30	25	20	16
			(gm/100 in ² /day)	2.3	2.0	1.6	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	90	80	75	70	45
			(cc/100 in ² /day)	5.8	5.2	4.8	4.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

MD = MACHINE DIRECTION, TD = TRANSVERSE DIRECTION

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FOOD CONTACT

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F-CCY

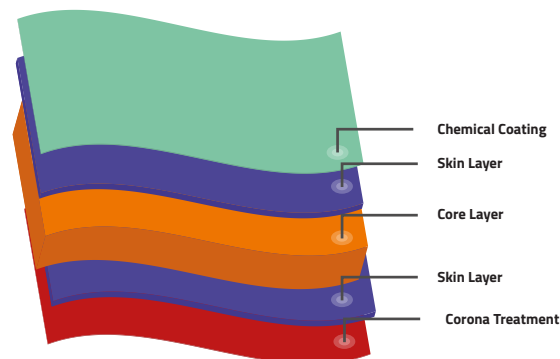
CHEMICAL COATED YARN GRADE FILM

F-CCY is a transparent BOPET film. The Film is one side chemical coated other side corona treated.

KEY FEATURES:

- Excellent clarity & transparency
- Very High thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Improved adhesion to metal & various Inks on chemical coated side & enhances laminate bond strength with outer substrate

FILM STRUCTURE



APPLICATION:

- Metallic yarn
- Synthetic jari(Yarn)
- Metallization, Lacquering
- Printing & lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	12	23
			(Gauge)	48	92
YIELD		Internal	m² / kg	59.52	31.05
			in² /lb	4 1934	21876
SURFACE TENSION # (Chemical Coated Side) (Corona Treadted side)		ASTM D-2578	-	60	
				52	
COF (max) (One side to the other side)		ASTM D-1894	-	0.5	0.5
HAZE (max)		ASTM D-1003	%	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	2000	2000
	TD			2100	2100
	MD		(Psi)	28500	28500
	TD			30000	30000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	120
	TD			80	90
LINEAR SHRINKAGE (max) (5 Minute at 190°C)	MD	ASTM D-1204	%	4.0	
	TD			0.5	
W.V.T.R. (38° C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	45	30
			(gm/100 in²/day)	2.9	2.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	80
			(cc/100 in²/day)	8.5	5.2

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

SELEXIBLE need to be stored in a warehouse below 35°C (95° F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

FOOD CONTACT

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F-CHY

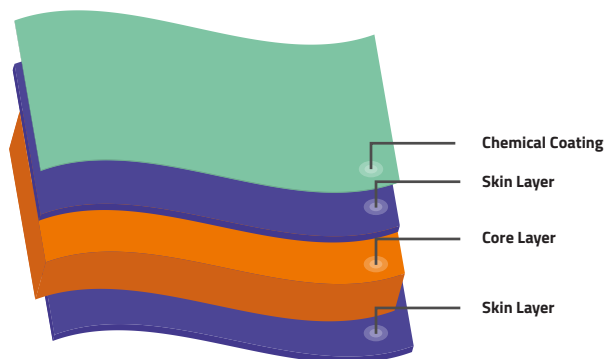
CHEMICAL COATED YARN GRADE FILM

F-CHY is a transparent BOPET film. The Film is one side chemical coated other side untreated.

KEY FEATURES:

- Excellent clarity & transparency
- Very High thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Improved metal & various type Ink adhesion on chemical coated side

FILM STRUCTURE



APPLICATION:

- Metallie yarn
- Synthetic Jari (yarn)
- Metallization Lacquering
- Printing & Lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	12	23
			(Gauge)	48	92
YIELD		Internal	m² / kg	59.52	31.05
			in² /lb	41934	21876
SURFACE TENSION # (Chemical Coated Side)		ASTM D-2578	-	60	
COF (max) (One side to the other side)		ASTM D-1894	-	0.5	0.5
HAZE (max)		ASTM D-1003	%	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	2000	2000
	TD			2100	2100
	MD		(Psi)	28500	28500
	TD			30000	30000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	120
	TD			80	90
LINEAR SHRINKAGE (max) (5 Minute at 190°C)	MD	ASTM D-1204	%	4.0	
	TD			0.5	
W.V.T.R. (38°C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	45	30
			(gm/100 in²/day)	2.9	2.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	80
			(cc/100 in²/day)	8.5	5.2

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

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FOOD CONTACT

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F-YRN

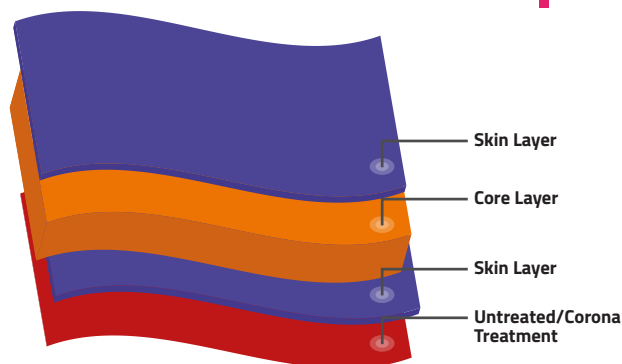
YARN GRADE FILM

F-YRN is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated.

KEY FEATURES:

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties

FILM STRUCTURE



APPLICATION:

- Metallic yarn
- Synthetic jari (yarn)
- Metallization & Lacquering

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	12	15	23	36	50
			(Gauge)	48	60	92	144	200
YIELD		Internal	m ² / kg	59.52	47.62	31.05	19.84	14.28
			in ² /lb	41936	33550	21876	13978	10060
SURFACE TENSION (min) # (Corona treated surface)		ASTM D-2578	dyne/cm	52				
COF (max) (Corona Treated to Untreated) (Untreated to Untreated)		ASTM D-1894	-	0.55	0.55	0.50	0.50	0.50
				0.50	0.50	0.45	0.45	0.40
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.5	4.5	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	2000	2000	2000	1750	1750
	TD			2100	2100	2100	2000	2000
	MD		(Psi)	28500	28500	28500	25000	25000
	TD			30000	30000	30000	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	100	100	120	150	150
	TD			80	80	90	100	110
LINEAR SHRINKAGE (max) (5 Minute at 190°C) (30 Minute at 150°C)	MD	ASTM D-1204	%	4.0	4.0	4.0	-	-
	TD			0.5	0.5	0.5	-	-
	MD			-	-	-	2.0	2.0
	TD			-	-	-	0.5	0.5
MVTR 38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	40	30	20	16
			(gm/100 in ² /day)	2.9	2.6	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	110	80	70	45
			(cc/100 in ² /day)	8.5	7.1	5.2	4.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

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FOOD CONTACT

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F-ELE

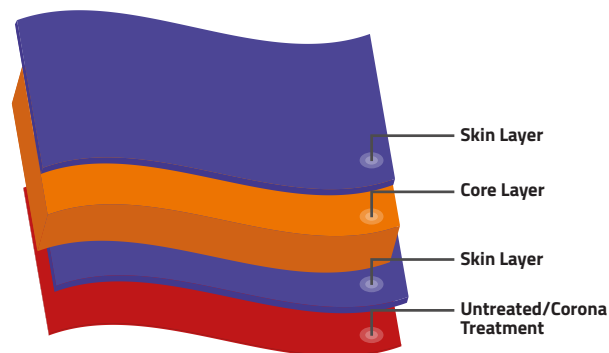
ELECTRICAL INSULATION FILM

F-ELE is a transparent BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

KEY FEATURES:

- Excellent dielectrical properties
- High break down voltage
- Excellent machinability & handling properties
- High electrical receptivity

FILM STRUCTURE



APPLICATION:

- Electrical insulation
- Motor winding & cable over wrap
- Leatheroid Lamination
- Electrical insulation tape

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES						
THICKNESS		Internal	Micron	8	12	15	19	23	36	50
			(Gauge)	32	48	60	76	92	144	200
YEILD		Internal	m ² / kg	89.28	59.52	47.62	37.59	31.05	19.84	14.28
			in ² /lb	62901	41934	33550	26483	21876	13978	10060
SURFACE TENSION (min) # (Corona Treated surface)		ASTM D-2578	dyne/cm	52						
COF (max) (One side to the other)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.45	0.45
HAZE (min)		ASTM D-1003	%	3.5	3.5	4.0	4.5	5.0	7.0	9.0
TENSILE STRENGTH AT BREAK (min)	MD*	ASTM D-882	kg/cm ²	1900	1900	1900	1900	1900	1750	1750
	TD*			2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	105	105	110	115	120	125
	TD			80	85	85	85	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0						
	TD			1.0						
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	50	45	40	35	30	20	16
			(gm/100 in ² /day)	3.2	2.9	2.6	2.3	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	110	90	80	70	45
			(cc/100 in ² /day)	10.1	8.5	7.1	5.8	5.2	4.5	2.9

The inherent surface tension of the Untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

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FOOD CONTACT

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F-LAM

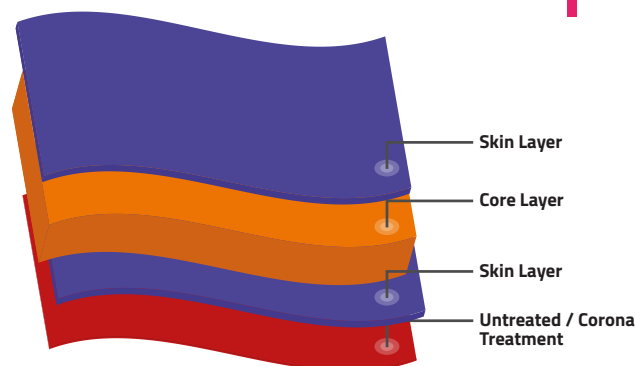
BALANCED SHRINKAGE FILM

F-LAM is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with other side Untreated.

KEY FEATURES:

- Good clarity
- Balanced Shrinkage
- Excellent machinability & handling properties
- Corona treatment improves bonding

FILM STRUCTURE



APPLICATION:

- Thermal Lamination
- Document Lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES									
THICKNESS		Internal	Micron	8	10	11	12	15	19	23	36	50	
			(Gauge)	32	40	44	48	60	76	92	144	200	
YIELD		Internal	m ² / kg	89.28	71.42	64.93	59.52	47.62	37.59	31.05	19.84	14.28	
			in ² /lb	62901	50318	45745	41934	33550	26483	21876	13978	10060	
SURFACE TENSION (min) # (Corona side)		ASTM D-2578	dyne/cm	52									
COF (max) (Untreated to Untreated) (Untreated to Corona Treated)		ASTM D-1894	-	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
				0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.45	0.45	
HAZE (max)		ASTM D-1003	%	3.5	3.5	3.5	3.5	4.0	4.0	4.5	4.5	5.0	
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1900	1900	1900	1900	1750	1750	
	TD			2000	2000	2000	2000	2000	2000	2000	2000	2000	
	MD		(Psi)	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK	MD	ASTM D-882	%	90	100	100	105	105	110	115	120	125	
	TD			80	80	85	85	85	85	90	90	95	
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	4.0									
	TD			2.0									
MVTR (38° C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	50	50	45	45	40	35	30	20	16	
			(gm/100 in ² /day)	3.2	3.2	2.9	2.9	2.6	2.3	2.0	1.3	1.0	
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	155	130	130	110	90	80	70	45	
			(cc/100 in ² /day)	10.1	10.1	8.5	8.5	7.1	5.8	5.2	4.5	2.9	

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

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FOOD CONTACT

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F-UVP

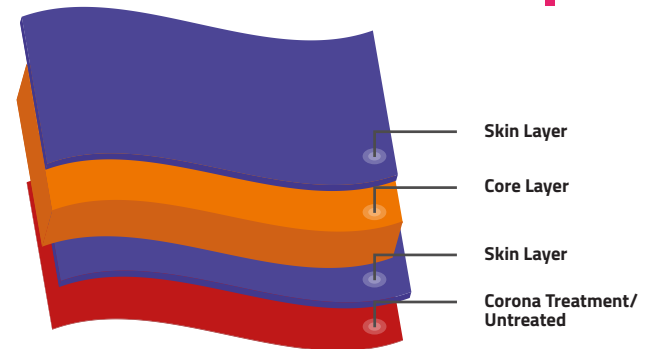
UV STABILIZED FILM

F-UVP is a transparent UV stabilized BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

KEY FEATURES:

- High clarity
- Excellent dimensional stability & machinability
- Outstanding exterior stability when exposed to sunlight

FILM STRUCTURE



APPLICATION:

- Flexible packaging
- Labels to protect printing from UV rays
- Agricultural purposes
- UV protective packaging

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	12	15	23	38	45	50
			(Gauge)	48	60	92	152	180	200
YIELD		Internal	m² / kg	59.52	47.62	31.05	18.79	15.87	14.28
			in² /lb	41934	33550	21876	13238	11180	10060
SURFACE TENSION (min) # (Corona Treated surface)		ASTM D-2578	dyne/cm	52					
COF (max) (Untreated to Untreated) (Untreated to Corona Treated)		ASTM D-1894	-	0.45	0.45	0.45	0.40	0.40	0.40
				0.50	0.50	0.50	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.5	5.0	5.0	5.5
UV Absorbance (min) (at 355nm)		Internal	%	1.4	1.5	1.8	1.8	1.8	1.8
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900	1750	1750	1750
	TD			2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	25000	25000	25000
	TD			28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	105	115	120	125	125
	TD			85	85	90	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0					
	TD			1.0					
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	45	40	30	20	18	16
			(gm/100 in²/day)	2.9	2.6	2.0	1.3	1.2	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	110	80	70	55	45
			(cc/100 in²/day)	8.5	7.1	5.2	4.5	3.5	2.9

The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

STORAGE & HANDLING

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FOOD CONTACT

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F-EMB

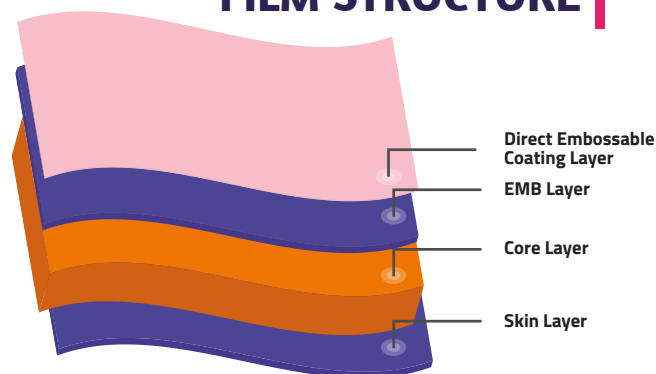
DIRECT EMBOSSABLE FILM

F-EMB is a Co-extruded transparent BOPET film. The Film having one side direct Embossable layer and other side Untreated.

KEY FEATURES:

- Excellent gloss & clarity
- Embossable layer provide deep & sharp impression without any offline coating
- Excellent machinability
- Excellent chemical resistant

FILM STRUCTURE



APPLICATION:

- Direct Embossing
- Holographic Application
- Metallization & gift wrap

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	9	13
			(Gauge)	36	52
YIELD		Internal	m² / kg	79.36	54.94
			in² /lb	55912	38707
SURFACE TENSION (min) # (Embossable side)		ASTM D-2578	dyne/cm	40	
COF (max) (Embossable side to Embossable side) (Other sideto the other side)		ASTM D-1894	-	0.70	0.70
				0.50	0.50
HAZE (max)		ASTM D-1003	%	2.5	3.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1700	1700
	TD			1900	1900
	MD		(Psi)	24200	24200
	TD			27000	27000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	100
	TD			80	85
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0	
	TD			1.0	
W.V.T.R. (38° C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	50	45
			(gm/100 in²/day)	3.2	2.9
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	130
			(cc/100 in²/day)	10.1	8.5

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

SELEXIBLE need to be stored in a warehouse below 35°C (95° F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment

FOOD CONTACT

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F-MSH

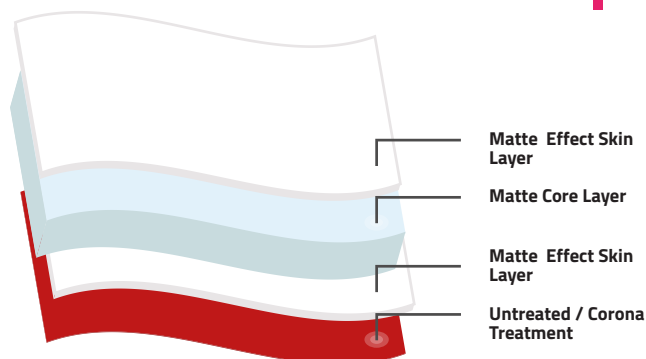
SUPER MATT POLYESTER FILM

F-MSH is a Super Matt effect BOPET film. The Film is both side untreated or one side corona treated.

KEY FEATURES:

- Super matt effect
- One side corona treatment provide good adhesion with inks & adhesives
- Excellent machinability & handling properties
- Good stiffness

FILM STRUCTURE



APPLICATION:

- Thermal lamination
- Label application
- Conversion application
- Board lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	19	23
			(Gauge)	48	76	92
YIELD		Internal	m ² / kg	59.52	37.59	31.05
			in ² /lb	41934	26483	21876
SURFACE TENSION (min) # (Corona treated Side)		ASTM D-2578	dyne/cm	52		
COF (max) (One side to the other side)		ASTM D-1894	-	0.50		
HAZE (min)		ASTM D-1003	%	70	75	85
GLOSS AT 45° angle		ASTM D-2457	-	28	26	25
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1500	1500	1400
	TD			1900	1900	1900
	MD		(Psi)	21400	21400	19900
	TD			27000	27000	27000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	120	130
	TD			75	80	85
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0		
	TD			1.0		
W.V.T.R. (38° C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	35	30
			(gm/100 in ² /day)	2.9	2.3	2.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	90	80
			(cc/100 in ² /day)	8.5	5.8	5.2

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

SELEXIBLE need to be stored in a warehouse below 35°C (95° F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

FOOD CONTACT

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F-MSU

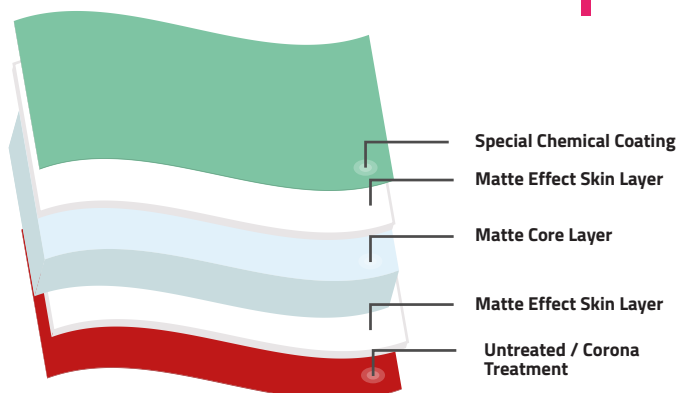
SPECIAL CHEMICAL COATED SUPER MATT FILM

F-MSU is a Super Matt effect BOPET film. The Film is one side Special Chemical coated and other side Untreated or Corona treated.

KEY FEATURES:

- Super Matt effect
- One side chemical coating provide excellent adhesion with inks & adhesives
- Excellent machinability & handling properties
- Good stiffness

FILM STRUCTURE



APPLICATION:

- Thermal lamination
- Label application
- Conversion application
- Board lamination

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	19	23
			(Gauge)	48	76	92
YIELD		Internal	m² / kg	59.52	37.59	31.05
			in² /lb	41934	26483	21876
SURFACE TENSION (min) # (Special Chemical Coated Side)		ASTM D-2578	dyne/cm	48		
COF (max) (One side to the other side)		ASTM D-1894	-	0.45	0.40	0.40
HAZE (min)		ASTM D-1003	%	70	75	85
GLOSS AT 45° angle		ASTM D-2457	-	28	26	25
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1500	1500	1400
	TD			1900	1900	1900
	MD		(Psi)	21400	21400	19900
	TD			27000	27000	27000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	120	130
	TD			75	80	85
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0		
	TD			1.0		
W.V.T.R. (38° C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	45	35	30
			(gm/100 in²/day)	2.9	2.3	2.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	90	80
			(cc/100 in²/day)	8.5	5.8	5.2

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

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FOOD CONTACT

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F-UVF

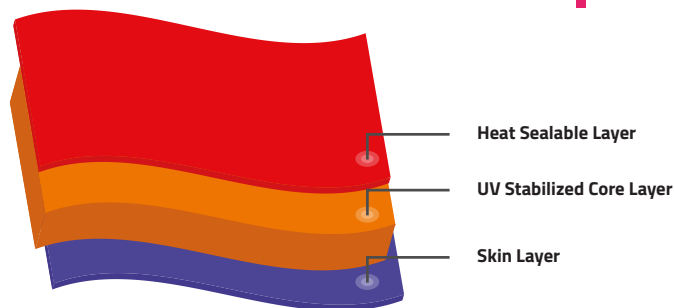
UV STABILIZED HEAT SEALABLE BOPET FILM

F-UVF is a co-extruded UV stabilized polyester film. The film is one side sealable surface other side Untreated.

KEY FEATURES:

- Very good clarity & transparency
- Excellent machinability & handling properties
- Outstanding Exterior stability when exposed to sunlight

FILM STRUCTURE



APPLICATION:

- Film is suitable for FRP application

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	15	23	36
			(Gauge)	60	92	144
YIELD		Internal	m² / kg	47.6	31	19.84
			in² /lb	33550	21876	13978
SURFACE TENSION (min) # (Heat Sealable Side)		ASTM D-2578	dyne/cm	48		
COF (max) (One Side to Other Side) (Untreated to Untreated)		ASTM D-1894	-	0.60	0.60	0.60
				0.50	0.50	0.50
HAZE (max)		ASTM D-1003	%	4.5	5.0	5.5
UV Absorbance @ 355 nm (min)		Internal	%	1.5	1.8	1.8
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1700	1600	1600
	TD			1900	2000	2000
	MD		(Psi)	24200	22700	22700
	TD			28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	115	120	130
	TD			85	90	95
HEAT SEAL TEMP. RANGE (service temp.)	FIN SEAL	Internal	°C	110 - 200	110 - 200	120 - 200
SEAL STRENGTH (120°C, 1 sec, 2.8 bar)	FIN SEAL	ASTM D-882	gms/25mm	600	800	1100
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0		
	TD			1.0		
W.V.T.R. (38°C & 90% RH) (typical)		ASTM F-1249	gm/m²/day	40	30	20
			(gm/100 in²/day)	2.6	2.0	1.3
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	110	80	70
			(cc/100 in²/day)	71.0	5.2	4.5

The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

STORAGE & HANDLING

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