

R-AUT

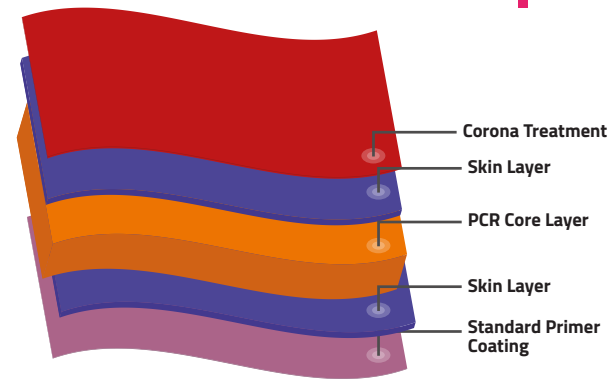
STANDARD PRIMER COATED PCR FILM

R-AUT is a transparent BOPET film. The film is one side Standard Primer Coated and the other side Corona Treated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Primer coating provides excellent adhesion with inks & adhesives
- Corona treatment improves bonding
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

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

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES								
THICKNESS		Internal	Micron	8	9	10	12	19	23	30	36	50
			(Gauge)	32	36	40	48	76	92	120	144	200
YIELD		Internal	m ² / kg	89.28	79.36	71.42	59.52	37.59	31.05	23.80	19.84	14.28
			in ² /lb	62901	55912	50318	41934	26483	21876	16768	13978	10060
SURFACE TENSION (min) (Standard Primer Coated surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	40								
				52								
COF (max) (One side to the other side)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.45	0.45	0.45	0.40
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.0	4.0	4.5	4.5	5.0	5.5
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	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	90	100	105	110	115	120	120	125
	TD			80	80	80	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/m ² /day	50	50	50	45	35	30	25	20	16
			(gm/100 in ² /day)	3.2	3.2	3.2	2.9	2.3	2.0	1.6	1.3	1.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	155	155	130	90	80	75	70	45
			(cc/100 in ² /day)	10.1	10.1	10.1	8.5	5.8	5.2	4.8	4.5	2.9

STORAGE & HANDLING Untreated side of any PET film is a minimum of 42 dyne/cm.

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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R-CHC/R-CHE

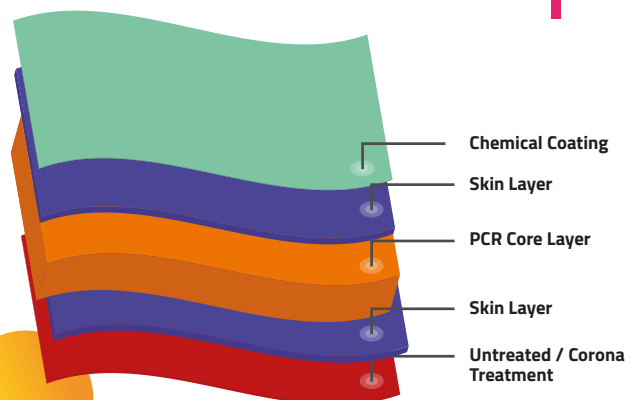
CHEMICALLY PRIMED PCR BASED FILM

This film has one surface Chemically Coated with the other surface being either Untreated or Corona Treated. Chemical coating provides excellent adhesion with various inks & adhesives. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent clarity
- Excellent machinability, handling properties, & dimensional stability
- Not suitable for hot fill, sterilization, or pasteurization
- Post consumer recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Conversion & Metallization
- Solvent & Water base coating

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES							
THICKNESS		Internal	Micron	12	15	19	23	30	36	50	
			(Gauge)	48	60	76	92	120	144	200	
YIELD		Internal	m ² / kg	59.52	47.62	37.59	31.05	23.8	19.84	14.28	
			in ² /lb	41934	33550	26483	21876	16768	13978	10060	
SURFACE TENSION (min) # (Chemical Coated Surface) (Corona Treated Surface)		ASTM D-2578	dyne/cm	60							
				52							
COF (max) Chemical Coated to Untreated Chemical Coated to Corona Treated		ASTM D-1894	-	0.50	0.50	0.50	0.45	0.40	0.40	0.40	
				0.50	0.50	0.50	0.50	0.50	0.50	0.45	
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.5	4.5	5.0	5.0	5.5	
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	%	105	105	110	115	115	120	125	
	TD			85	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/m ² /day	45	40	35	30	25	20	16	
			(gm/100 in ² /day)	2.9	2.6	2.3	2.0	1.6	1.3	1.0	
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	110	90	80	75	70	45	
			(cc/100 in ² /day)	8.5	7.1	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

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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R-CLR

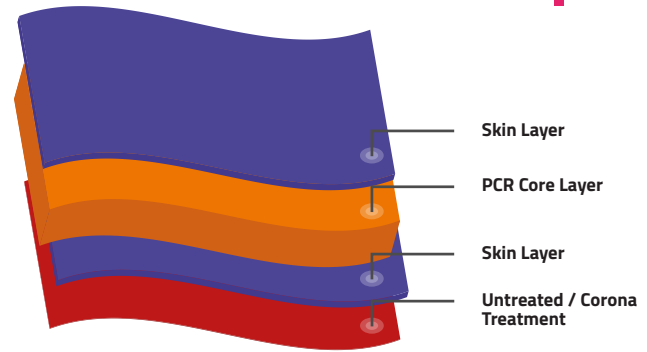
OPTICALLY CLEAR FILM

R-CLR is a transparent low haze BOPET film from our Asclepius PCR portfolio. The film is one side Corona Treated with one side Untreated or both sides Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%)

KEY FEATURES:

- Excellent clarity
- Corona Treatment improves bonding
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

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	36	50
			(Gauge)	36	40	44	48	60	76	92	100	144	200
YIELD		Internal	m² / kg	79.36	71.42	64.93	59.52	47.62	37.59	31.05	28.57	19.84	14.28
			in² /lb	55912	50318	45745	41934	33550	26483	21876	20119	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
				0.50	0.50	0.50	0.50	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	2.8	2.8
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900	1900	1900	1900	1900	1900	1750	1750
	TD			2000	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 (min)	MD	ASTM D-882	%	90	100	100	105	105	110	115	115	120	125
	TD			80	80	85	85	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	50	50	45	45	40	35	30	25	20	16
			(gm/100 in²/day)	3.2	3.2	2.9	2.9	2.6	2.3	2.0	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	70	45
			(cc/100 in²/day)	10.1	10.1	8.5	8.5	7.1	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

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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R-DSC-AA

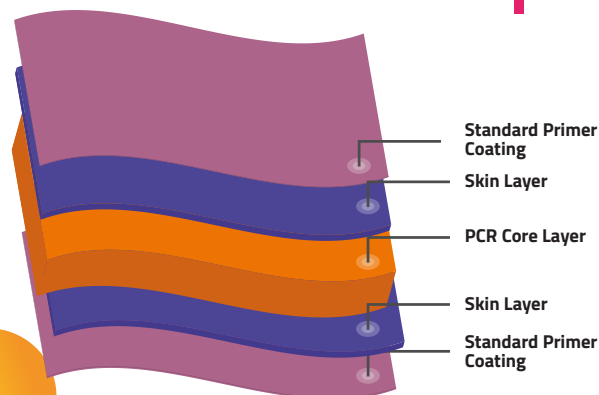
BOTH SIDES COATED-STANDARD PRIMER W/ PCR

R-DSC-AA is a transparent BOPET film produced with PCR content. The film is Standard Primer Coated on both sides. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Standard Primer Coating provides excellent adhesion with inks & adhesives
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & lamination
- Form, Fill & Seal Structures
- Hot fill & Pasteurization

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	10	12	15	23	36	50
			(Gauge)	40	48	60	92	144	200
YIELD		Internal	m² / kg	71.42	59.52	47.62	31.05	19.84	14.28
			in² /lb	50318	41934	33550	21876	13978	10060
SURFACE TENSION (min) (Standard Primer Coated surface)		ASTM D-2578	dyne/cm	40					
COF (max) (One side to the other)		ASTM D-1894	-	0.45	0.45	0.45	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	3.5	3.5	3.5	4.0	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	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	%	100	105	105	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/m²/day	50	45	40	30	20	16
			(gm/100 in²/day)	3.2	2.9	2.6	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	130	110	80	70	45
			(cc/100 in²/day)	10.1	8.5	7.1	5.2	4.5	2.9

STORAGE & HANDLING

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R-DSC-AP

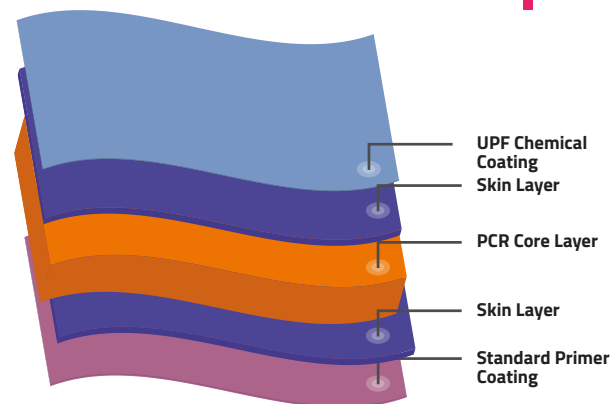
BOTH SIDES COATED-UPF CHEMICAL & STANDARD PRIMER W/PCR

R-DSC-AP is a transparent BOPET film produced with PCR content. The film is one side UPF Chemical coated with the other side being Standard Primer Coated. This data sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Both surfaces provides excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

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

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	10	12	23	36	50
			(Gauge)	40	48	92	144	200
YIELD		Internal	m ² / kg	71.42	59.52	31.05	19.84	14.28
			in ² /lb	50318	41934	21876	13978	10060
SURFACE TENSION (min) (UPF Chemical Coated Surface) (Standard Primer Coated Surface)		ASTM D-2578	dyne/cm	48				
				40				
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	%	3.5	3.5	4.0	4.0	4.5
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	%	100	105	115	120	125
	TD			80	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	30	20	16
			(gm/100 in ² /day)	3.2	2.9	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	80	70	45
			(cc/100 in ² /day)	10.1	8.5	5.2	4.5	2.9

STORAGE & HANDLING

*MD = MACHINE DIRECTION, *TD = TRANSVERSE DIRECTION

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R-DSC-CA

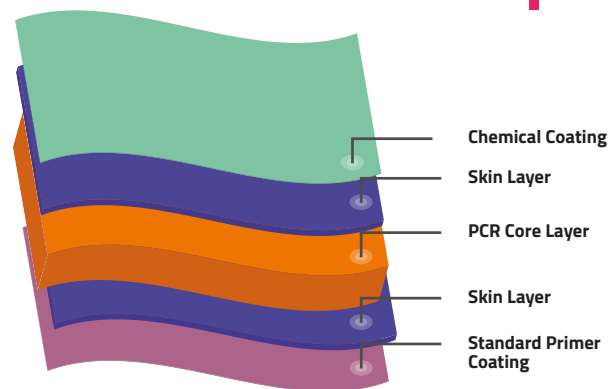
BOTH SIDES COATED-CHEMICAL & STANDARD PRIMER W/PCR

R-DSC-CA is a transparent BOPET film produced with PCR content. The film is one side Chemical Coated with the other side being Standard Primer Coated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Both surfaces provide excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Not Suitable for hot Fill, sterilization or Pasterization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Form, Fill & Seal Structures

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	10	12	23	36	46	50
			(Gauge)	40	48	92	144	180	200
YIELD		Internal	m ² / kg	71.42	59.52	31.05	19.84	15.33	14.28
			in ² /lb	50318	41934	21876	13978	10934	10060
SURFACE TENSION (min) (Chemical Coated Surface) (Standard Primer Coated Surface)		ASTM D-2578	dyne/cm	60					
				40					
COF (max) (One side to the other)		ASTM D-1894	-	0.50	0.50	0.50	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	3.5	3.5	4.0	4.0	4.5	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	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	%	100	105	115	120	125	125
	TD			80	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	50	45	30	20	18	16
			(gm/100 in ² /day)	3.2	2.9	2.0	1.3	1.2	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	80	70	55	45
			(cc/100 in ² /day)	10.1	8.5	5.2	4.5	3.5	2.9

STORAGE & HANDLING

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

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R-DSC-CC

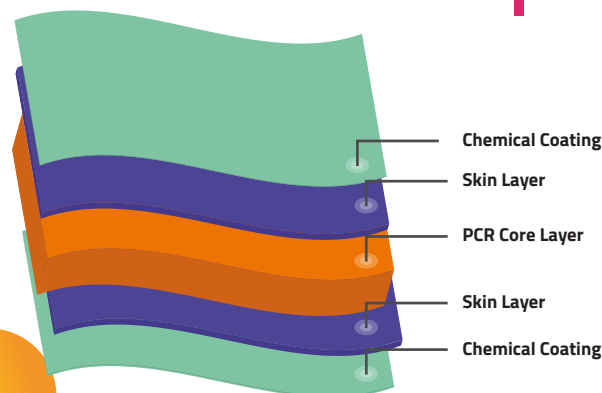
BOTH SIDES COATED-CHEMICAL W/ PCR

R-DSC-CC is a transparent BOPET film produced with PCR content. The film is Chemical Coated on both sides. This data sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Chemical Coated Surface provides excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Not suitable for Hot Fill, Sterilization, or Pasteurization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Form, Fill & Seal Structures

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	10	12	23	36	50
			(Gauge)	40	48	92	144	200
YIELD		Internal	m² / kg	71.42	59.52	31.05	19.84	14.28
			in² /lb	50318	41934	21876	13978	10060
SURFACE TENSION (min) (Chemical Coated Surface)		ASTM D-2578	dyne/cm	60				
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	%	4.0	4.0	5.0	5.5	6.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	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	%	100	105	115	120	125
	TD			80	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/m²/day	50	45	30	20	16
			(gm/100 in²/day)	3.2	2.9	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	130	80	70	45
			(cc/100 in²/day)	10.1	8.5	5.2	4.5	2.9

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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R-DSC-CP

BOTH SIDES COATED-CHEMICAL & UPF

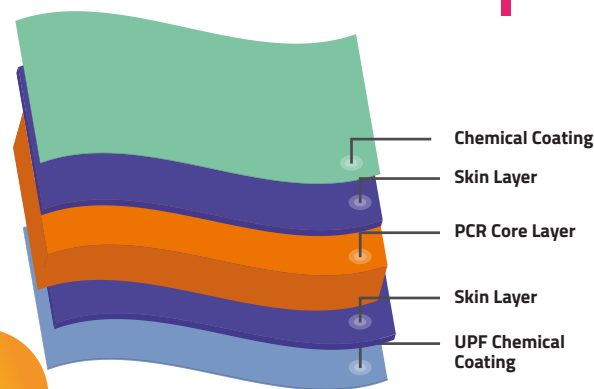
CHEMICAL W/ PCR

R-DSC-CP is a transparent BOPET film produced with PCR content. The film is one side UPF Chemical Coated to provide a modified functional surface with the other side being Chemical Coated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Both surfaces provide excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Not suitable for Hot Fill, Sterilization, or Pasteurization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Form, Fill & Seal Structures

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	10	12	23	36	50
			(Gauge)	40	48	92	144	200
YIELD		Internal	m² / kg	71.42	59.52	31.05	19.84	14.28
			in² /lb	50318	41934	21876	13978	10060
SURFACE TENSION (min) (Chemical Coated Surface) (UPF Chemical Coated Surface)		ASTM D-2578	dyne/cm	60				
				48				
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	%	4.0	4.0	5.0	5.5	6.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	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	%	100	105	115	120	125
	TD			80	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/m²/day	50	45	30	20	16
			(gm/100 in²/day)	3.2	2.9	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	130	80	70	45
			(cc/100 in²/day)	10.1	8.5	5.2	4.5	2.9

STORAGE & HANDLING

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FOOD CONTACT

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R-DSC-EE

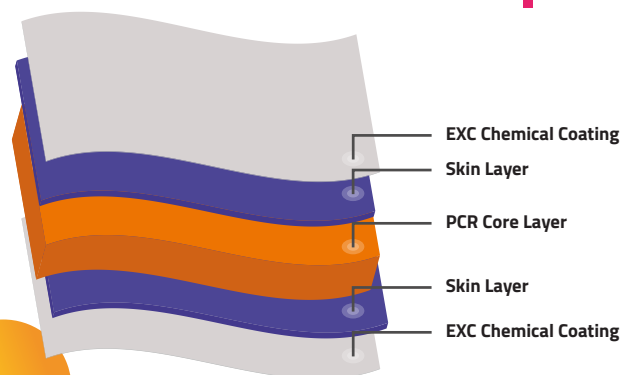
BOTH SIDES COATED-DIRECT EXTRUSION W/ PCR

R-DSC-EE is a transparent BOPET film produced with PCR content. Both sides of the film are EXC Chemical coated to provide modified functional surfaces. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- No solvent emissions or residuals during extrusion coating
- Excellent machinability & handling properties
- No additional priming needed prior to extrusion
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Conversion & Metallization
- Printing & Lamination
- Form, Fill, & Seal Structures
- Specially designed for direct extruded polyethylene adhesion without the need for primer

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	10	12	23	36	50
			(Gauge)	40	48	92	144	200
YIELD		Internal	m ² / kg	71.42	59.52	31.05	19.84	14.28
			in ² /lb	50318	41934	21876	13978	10060
SURFACE TENSION (min) (EXC Chemical Coated surface)		ASTM D-2578	dyne/cm	38				
COF (max) (One side to the other)		ASTM D-1894	-	0.35	0.35	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	3.5	3.5	4.0	4.0	4.5
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	%	100	105	115	120	125
	TD			80	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	30	20	16
			(gm/100 in ² /day)	3.2	2.9	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	80	70	45
			(cc/100 in ² /day)	10.1	8.5	5.2	4.5	2.9

STORAGE & HANDLING

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FOOD CONTACT

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R-DSC-MM

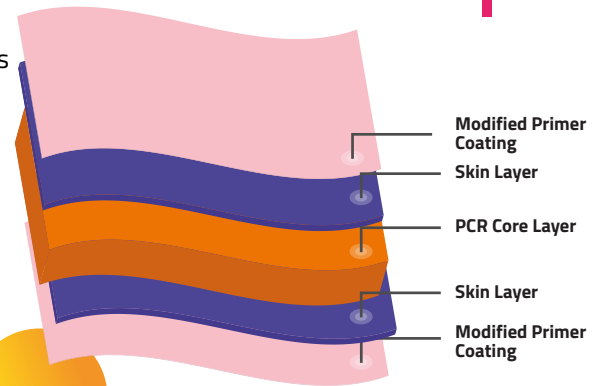
BOTH SIDES COATED-MODIFIED PRIMER W/PCR

R-DSC-MM is a transparent BOPET film produced with PCR content. The film is Modified Primer Coated on both sides. This data sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Modified Primer coated surfaces provide excellent adhesion with inks & adhesives
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Form, Fill & Seal Structures

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	10	12	23	36	50
			(Gauge)	40	48	92	144	200
YIELD		Internal	m² / kg	71.42	59.52	31.05	19.84	14.28
			in² /lb	50318	41934	21876	13978	10060
SURFACE TENSION (min) (Modified Primer Coated Surface)		ASTM D-2578	dyne/cm	52				
COF (max) (One side to the other)		ASTM D-1894	-	0.45	0.45	0.45	0.40	0.40
HAZE (max)		ASTM D-1003	%	3.5	3.5	4.5	4.5	5.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	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	%	100	105	115	120	125
	TD			80	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/m²/day	50	45	30	20	16
			(gm/100 in²/day)	3.2	2.9	2.0	1.3	1.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	155	130	80	70	45
			(cc/100 in²/day)	10.1	8.5	5.2	4.5	2.9

STORAGE & HANDLING

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R-DSC-PM

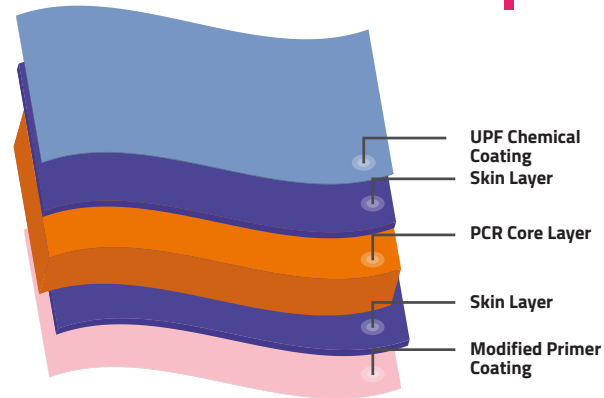
BOTH SIDES COATED-UPF CHEMICAL & MODIFIED PRIMER W/ PCR

R-DSC-PM is a transparent polyester film produced with PCR content. The film is one side UPF Chemical Coated to provide a modified functional surface with the other side being Modified Primer Coated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%)

KEY FEATURES:

- High clarity
- Both surface types provide excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

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

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	10	12	19	23	36	50
			(Gauge)	40	48	76	92	144	200
YIELD		Internal	m ² / kg	71.42	59.52	37.60	31.05	19.84	14.28
			in ² /lb	50318	41934	26483	21876	13978	10060
SURFACE TENSION (min) (UPF Chemical Coated surface) (Modified Primer Coated surface)		ASTM D-2578	dyne/cm	48					
				52					
COF (max) (One side to the other)		ASTM D-1894	-	0.35	0.35	0.40	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	3.5	3.5	4.0	4.5	4.5	5.0
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	%	100	105	110	115	120	125
	TD			80	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	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

STORAGE & HANDLING

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

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FOOD CONTACT

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R-DSC-PP

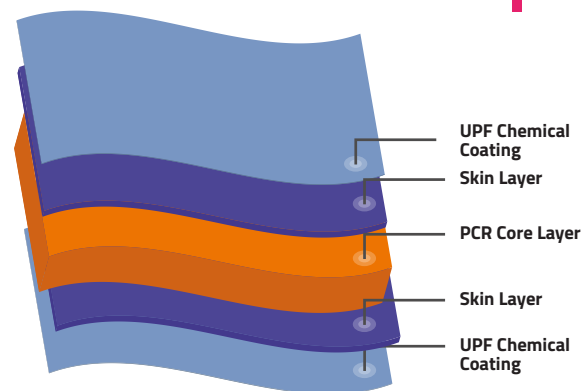
BOTH SIDES COATED-UPF CHEMICAL W/PCR

R-DSC-PP is a transparent BOPET film produced with PCR content. The film is UPF Chemically coated to provide a Modified Functional surface on both sides. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- UPF Chemical coatings provide excellent adhesion with various inks & adhesives
- Excellent machinability & handling properties
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Converting & Metallization
- Printing & Lamination
- Form, Fill & Seal Structures
- Hot fill, Pasteurization, Sterilization, & Retort applications

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	10	12	15	23	36	50
			(Gauge)	40	48	60	92	144	200
YIELD		Internal	m ² / kg	71.42	59.52	47.62	31.05	19.84	14.28
			in ² /lb	50318	41934	33550	21876	13978	10060
SURFACE TENSION (min) (UPF Chemical Coated surface)		ASTM D-2578	dyne/cm	48					
COF (max) (One side to the other)		ASTM D-1894	-	0.45	0.45	0.45	0.40	0.40	0.40
HAZE (max)		ASTM D-1003	%	3.5	3.5	3.5	4.0	4.0	4.5
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	%	100	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	40	30	20	16
			(gm/100 in ² /day)	3.2	2.9	2.6	2.0	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	155	130	110	80	70	45
			(cc/100 in ² /day)	10.1	8.5	7.1	5.2	4.5	2.9

STORAGE & HANDLING

*MD = MACHINE DIRECTION, *TD = TRANSVERSE DIRECTION

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R-ESB

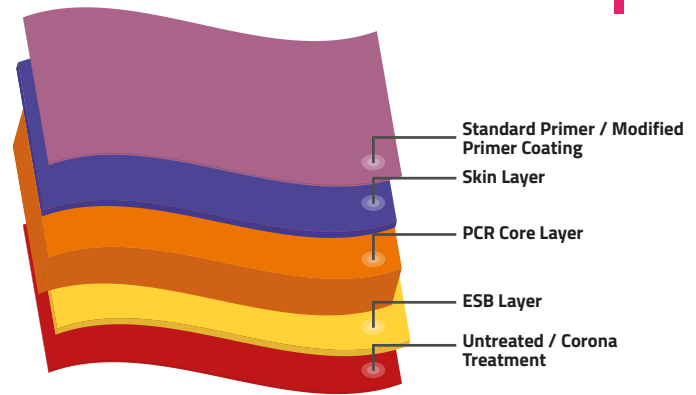
PCR BASED EASY STACKABLE FILM

R-ESB is a transparent BOPET film. The film is either one side Untreated "Functional" surface or Corona treated with the other side being Standard Primer Coated or Modified Primer Coated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent machinability & good handling properties
- Specially modified functional surface is designed to prevent stacked bags from slipping in storage or during palletization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Printing & Lamination
- Easy stacking of bags & pouches

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	12	23
			(Gauge)	48	92
YIELD		Internal	m ² / kg	59.52	31.08
			in ² /lb	41934	21876
SURFACE TENSION (min) # (Modified Primer Coated Surface) (Corona Treated Surface) (Standard Primer Coated Surface)		ASTM D-2578	dyne/cm	52	
				52	
				40	
COF (max) (FL (UT) / FL (UT)) "High COF Surface" (AU/AU or AT/AT) (FL/AU or FL/AT)		ASTM D-1894	-	1.0	1.0
				0.45	0.45
				0.50	0.50
HAZE (max)		ASTM D-1003	%	1.5	2.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900
	TD			2000	2000
	MD		(Psi)	27000	27000
	TD			28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	115
	TD			85	90
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
			(gm/100 in ² /day)	2.9	2.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	80
			(cc/100 in ² /day)	8.5	5.2

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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R-ESC

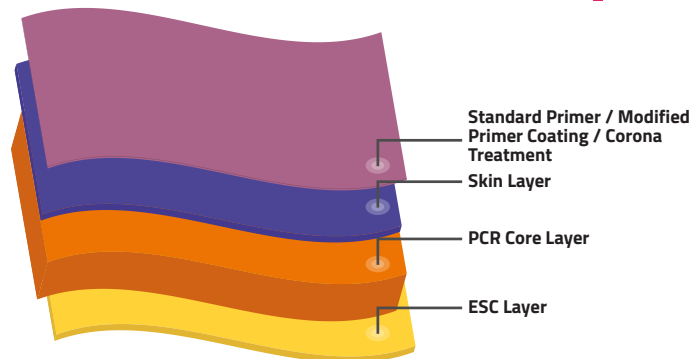
PCR BASED EASY STACKABLE FILM

R-ESC is a transparent BOPET film. The film is an Untreated "Functional" surface with the other surface being Standard Primer Coated, Modified Primer Coated, or Corona Treated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent machinability & good handling properties
- Specially modified functional surface is designed to prevent stacked bags from slipping in storage or during palletization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Printing & Lamination
- Easy stacking of bags & pouches

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES
THICKNESS		Internal	Micron	12
			(Gauge)	48
YIELD		Internal	m² / kg	59.52
			in² /lb	41934
SURFACE TENSION (min) # (Corona Treatment) (Modified Primer Coated surface) (Standard Primer Coated surface)		ASTM D-2578	dyne/cm	52
				52
				40
COF (max) (CT/UT) (FL (CT) / FL (CT)) "High COF Surface" (FL (UT) / FL (UT)) "High COF Surface" (AU/AU or AT/AT) (FL/AU or FL/AT)		ASTM D-1894	-	0.45
				0.60-0.70
				0.60-0.80
				0.30-0.45
				0.30-0.45
HAZE (max)		ASTM D-1003	%	1.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900
	TD			2000
	MD		(Psi)	27000
	TD			28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105
	TD			85
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
			(gm/100 in²/day)	2.9
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130
			(cc/100 in²/day)	8.5

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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R-HSP

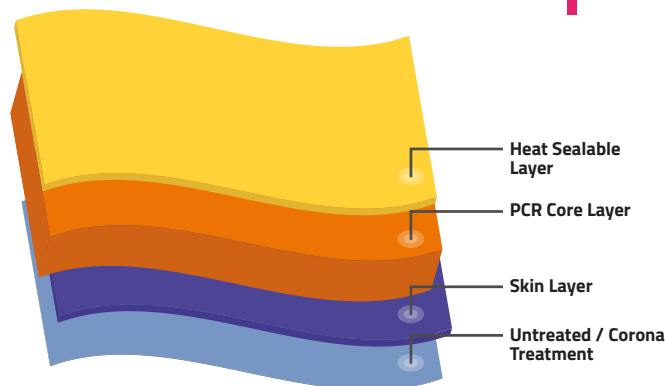
PCR BASED HEAT SEALABLE FILM

R-HSP is co-extruded transparent Heat Sealable polyester film from our Asclepius branded PCR content products. The film has a Heat Sealable Functional layer on one side and Untreated or Corona Treated on the other side. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Good optical properties
- Good machinability & handling properties
- Seals to itself, APET, CPET, & PVDC. Does not seal against PE, PP, or PS.
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Tack Seal application
- Printing & Lamination
- Food tray sealing
- Lids

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	15	25
			(Gauge)	48	60	100
YIELD		Internal	m ² / kg	59.52	47.62	28.57
			in ² /lb	41934	33550	20126
SURFACE TENSION (min) # (Corona Treated Surface)		ASTM D-2578	dyne/cm	52		
COF (max) (Untreated to Sealable Functional Surface) (Corona to Sealable Functional Surface)		ASTM D-1894	-	0.50		
				0.55		
HAZE (max)		ASTM D-1003	%	4.0	4.5	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1700	1700	1600
	TD			1900	1900	2000
	MD		(Psi)	24200	24200	22700
	TD			27000	27000	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	115	115	120
	TD			85	85	90
HEAT SEAL TEMP. RANGE		Internal	°C	110-200	110-200	120-200
SEAL STRENGTH (120°C, 1 sec, 2.8 bar)	FIN SEAL	ASTM D-882	gm./25mm	400	500	750
LINEAR SHRINKAGE (max) (30 Minute at 150°C)		ASTM D-1204	%	3.0		
				1.0		
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day	45	40	30
			(gm/100 in ² /day)	2.9	2.4	2.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	115	80
			(cc/100 in ² /day)	8.5	8.0	5.2

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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R-HTF

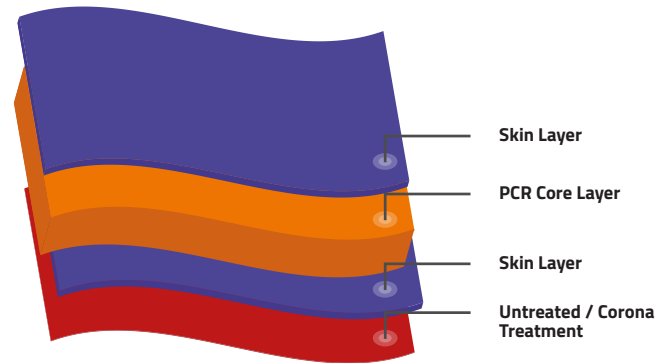
HOT STAMPING BASE FILM

R-HTF is transparent BOPET film from our Asclepius branded PCR content products. The film is either both sides Untreated or one side Corona Treated with other side Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Post Consumer Recycle content for a low carbon footprint (all % PCR)
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Good optical 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	12	15	19	23	36	45	50
			(Gauge)	48	60	76	92	144	180	200
YIELD		Internal	m ² / kg	59.52	47.62	37.59	31.05	19.84	15.87	14.28
			in ² /lb	41934	33550	26483	21876	13978	11181	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	-	0.50	0.50	0.50	0.50	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	4.5	5.0	5.5	5.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1900	1750	1750	1750
	TD			2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	25000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	105	110	115	120	125	125
	TD			85	85	90	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	-	-	-
	TD			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/m ² /day	45	40	35	30	20	18	16
			(gm/100 in ² /day)	2.9	2.6	2.3	2.0	1.3	1.2	1.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	110	90	80	70	55	45
			(cc/100 in ² /day)	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

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R-IST

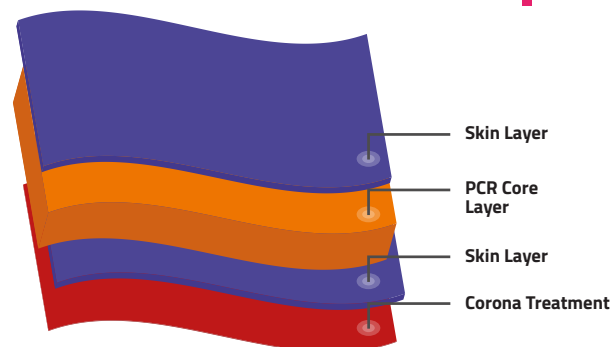
PCR BASED ISOTROPIC FILM

R-IST is a transparent BOPET film. The film has one side Untreated with the other side being Corona Treated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent clarity
- Corona treatment improves bonding
- Improved tensile & elongation properties
- Balanced mechanical properties in all directions
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- This film grade is ideal for lidding applications of dairy products
- Paper and Foil laminations

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	12	23	36
			(Gauge)	48	92	144
YIELD		Internal	m² / kg	59.52	31.05	19.84
			in² /lb	41934	21876	13978
SURFACE TENSION (min) # (Corona Treated)		ASTM D-2578	dyne/cm	52		
COF (max) (Untreated to Corona Treated)		ASTM D-1894	-	0.50	0.50	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.5	5.0
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1800	1800	1700
	TD			1900	1900	1900
	MD		(Psi)	25500	25500	24200
	TD			27000	27000	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	120	130
	TD			95	100	100
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	30	20
			(gm/100 in²/day)	2.9	2.0	1.3
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	80	70
			(cc/100 in²/day)	8.5	5.2	4.5

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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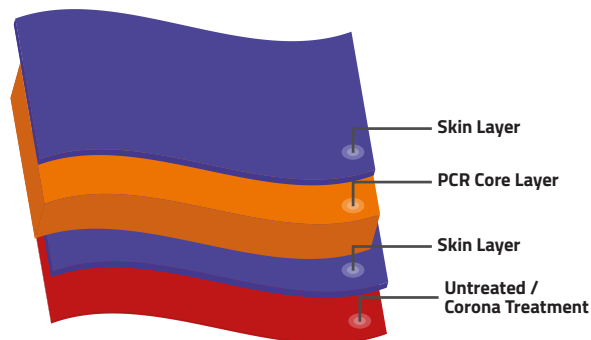
R-MTG PCR BASED FILMS

R-MTG is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent clarity
- High surface energy on treated side gives good metal adhesion
- Excellent machinability & handling properties
- Very good gloss after metallization
- Corona treatment improves bonding
- Used as a barrier substrate in laminate after metallization
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Flexible Packaging
- Laminations (Solventless and Extrusion)
- Decorative applications

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	12	15
			(Gauge)	48	60
YIELD		Internal	m² / kg	59.52	47.62
			in² /lb	41934	33550
SURFACE TENSION (min) # (Corona side)		ASTM D-2578	dyne/cm	52	
COF (max) (Corona Treated to Untreated) (Untreated to Untreated)		ASTM D-1894	-	0.50	
				0.50	
HAZE (max)		ASTM D-1003	%	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900
	TD			2000	2000
	MD		(Psi)	27000	27000
	TD			28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	110
	TD			85	85
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
			(gm/100 in²/day)	2.9	2.6
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	130	110
			(cc/100 in²/day)	8.5	7.1

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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R-PAP

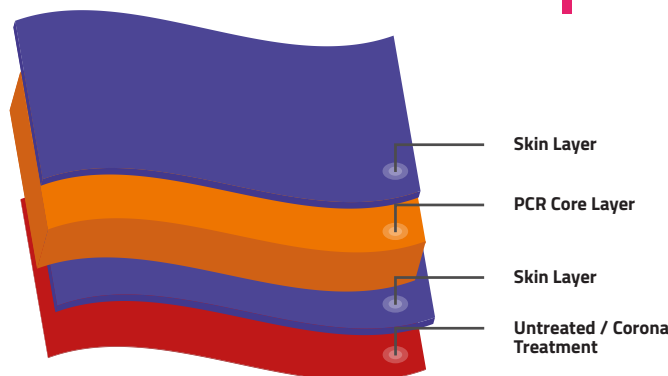
PLAIN PCR BASED FILM

R-PAP is a transparent BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High clarity
- Corona treatment improves bonding
- Excellent surface & good handling properties
- Excellent dimensional stability & machinability
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Flexible packaging
- Solvent & Water based coating

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES						
THICKNESS		Internal	Micron	12	15	19	23	30	36	50
			(Gauge)	48	60	76	92	120	144	200
YIELD		Internal	m ² / kg	59.52	47.62	37.59	31.05	23.80	19.84	14.28
			in ² /lb	41934	33550	26483	21876	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	0.45	0.45	0.40	0.40
				0.50	0.50	0.50	0.50	0.50	0.50	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.5	4.5	5.0	5.0	5.5
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	%	105	105	110	115	115	120	125
	TD			85	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/m ² /day	45	40	35	30	25	20	16
			(gm/100 in ² /day)	2.9	2.6	2.3	2.0	1.6	1.3	1.0
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	110	90	80	75	70	45
			(cc/100 in ² /day)	8.5	7.1	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

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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R-SLC

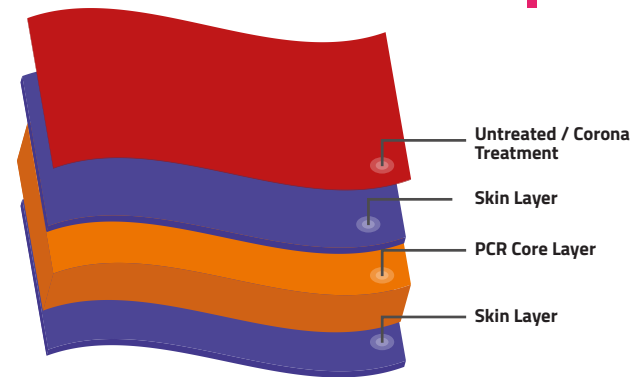
SILICONE COATABLE PCR BASED FILM

R-SLC is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- High mechanical strength & durability
- Good clarity
- Excellent machinability properties
- Good thermal & dimensional stability
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

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)	72	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 (max)		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

MOISTURE SENSITIVITY: TRANSVERSE DIRECTION

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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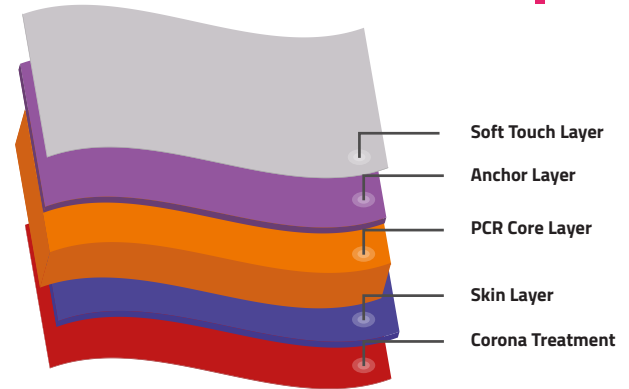
R-STF SOFT TOUCH MATTE FILM

R-STF is a soft touch / velvet feel matte BOPET film. The film is specially designed to laminate high quality graphic media with a velvet feel similar to peach skin. This data sheet applies to all PCR content levels (30, 50, 90 and 100%).

KEY FEATURES:

- Excellent matte homogeneity / dispersion
- Excellent soft velvet feel
- High haze (<90%)
- Low gloss on matte side
- Excellent contact clarity
- Good scratch resistance
- Post Consumer Recycle content for a low carbon footprint (all % PCR)

FILM STRUCTURE



APPLICATION:

- Luxury Packaging
- Label
- Graphic Advertising Banners
- High end stationary products like diary & book covers

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	14	25
			(Gauge)	56	100
YIELD		Internal	m² / kg	50.29	29.02
			in² /lb	35365	20400
SURFACE TENSION (min) (Soft Touch "Matte" surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	(Greater than) > 50	
				(Greater than) > 40	
COF (max) (One side to the other side)		ASTM D-1894	-	1.00	
HAZE (max)		ASTM D-1003	%	90.0	
COLOR (range)		ASTM D65 / 10º	b*	0 ± 1	
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900
	TD			2000	2000
	MD		(Psi)	27000	27000
	TD			28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	115
	TD			80	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0	
	TD			1.0	
GLOSS (range) (Soft Touch "Matte" Surface)		ASTM D-2457	GU	10-15	
COATING HARDNESS (range)		ASTM D-3363	-	HB - H	
COATING ANCHORAGE		ASTM D-3359	Internal	PASSES TEST	

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 180 days from the date of shipment.

FOOD CONTACT

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R-UPF

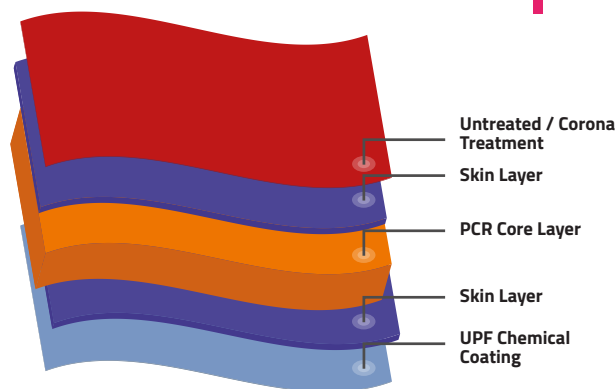
UPF CHEMICAL COATED PCR BASED FILM

R-UPF is a transparent BOPET film. The film is one side UPF Chemical Coated with the other side being Untreated or Corona Treated. This Data Sheet applies to all PCR content levels (30, 50, 90, and 100%).

KEY FEATURES:

- Excellent machinability & handling properties
- Excellent metal bond strength when metallized
- Corona treatment improves bonding
- Post Consumer Recycle content for a low carbon footprint (all % PCR)
- Modified surface provides excellent adhesion with various types of inks and adhesives.

FILM STRUCTURE



APPLICATION:

- Printing, Lamination, & Metallization
- Hot fill, Pasteurization, Sterilization, & Retort applications

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES			
THICKNESS		Internal	Micron	12	15	19	23
			(Gauge)	48	60	76	92
YIELD		Internal	m ² / kg	59.52	47.62	37.59	31.05
			in ² /lb	41934	33550	26483	21876
SURFACE TENSION (min) # (UPF Chemical Coated surface) (Corona Treated surface)		ASTM D-2578	dyne/cm	48			
				52			
COF (max) (UPF Chemical Coated to Untreated) (UPF Chemical Coated to Corona Treated)		ASTM D-1894	-	0.45	0.45	0.45	0.45
				0.45	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900	1900	1900
	TD			2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000
	TD			28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	105	110	115
	TD			85	85	85	90
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	40	35	30
			(gm/100 in ² /day)	2.9	2.6	2.3	2.0
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	130	110	90	80
			(cc/100 in ² /day)	8.5	7.1	5.8	5.2

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-PGX

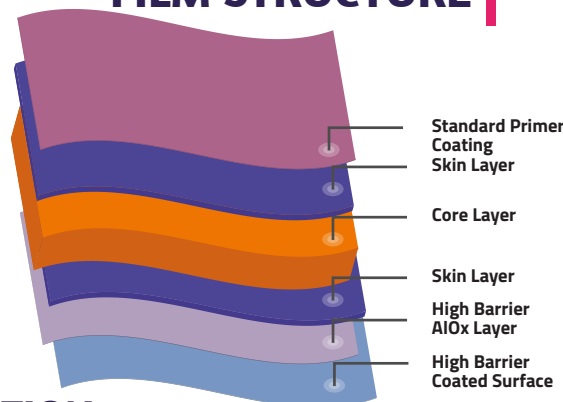
HIGH BARRIER ALOX FILM

F-PGX is a high barrier transparent BOPET film. The film has a Protective Printable layer atop a High Barrier vacuum deposit on one side with the other side treated with a Standard Primer Slip Coat.

KEY FEATURES:

- Excellent moisture & oxygen barrier properties
- Higher yield over PVDC coated films
- PVDC / EVOH (PE) coated film replacement
- Environmentally friendly
- High clarity and product visibility

FILM STRUCTURE



APPLICATION:

- The film is suitable for high barrier applications like dried meat snacks, confectionaries, microwavable foods, etc
- Eye catching packaging
- Handle film with care during printing and lamination processes to retain high barrier properties
- Suitable for hot fill, sterilization, pasteurization, and retort applications (121° C/30min)
- Industrial packaging

Key note:- Selection of specific ink & adhesive For Retort Application

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	9.5	12.5	23.5
			(Gauge)	38	50	94
YIELD		Internal	m² / kg	75.18	57.14	30.40
			in² /lb	52967	40257	21410
SURFACE TENSION (min) (Standard Primer Coated surface) (High Barrier Coated Surface)		ASTM D-2578	dyne/cm	40		
				48		
COF (max) (One side to the other side)		ASTM D-1894	-	0.50	0.50	0.50
HAZE (max)		ASTM D-1003	%	3.0	3.0	3.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900
	TD			2000	2000	2000
	MD		(Psi)	27000	27000	27000
	TD			28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	100	105	115
	TD			80	85	90
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	1.0	1.0	1.0
			(gm/100 in²/day)	0.065	0.065	0.065
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m²/day	1.0	1.0	1.0
			(cc/100 in²/day)	0.065	0.065	0.065

STORAGE & HANDLING

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F-PLX

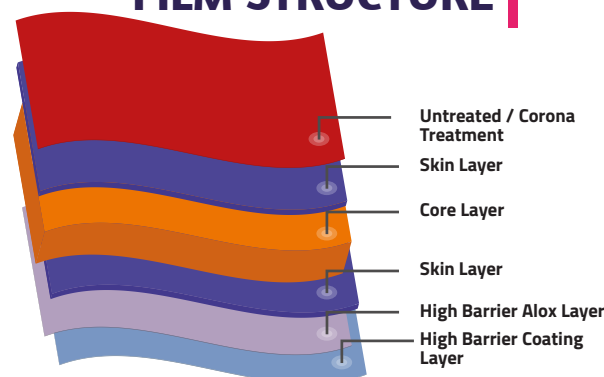
HIGH BARRIER ALOX FILM

F-PLX is a high barrier transparent BOPET film. The film has a Protective Printable layer atop a High Barrier vacuum deposit on one side with the other side either Untreated or Corona Treated.

KEY FEATURES:

- Excellent moisture & oxygen barrier properties
- Higher yield over PVDC coated films
- PVDC / EVOH (PE) coated film replacement
- Environmentally friendly
- High clarity and product visibility

FILM STRUCTURE



APPLICATION:

- The film is suitable for high barrier applications like dried meat snacks, confectionaries, microwavable foods, etc.
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- Industrial packaging

Keynote: Selection of specific ink & adhesive for retort application

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	12.5	23.5
			(Gauge)	50	94
YIELD		Internal	m ² / kg	57.14	30.40
			in ² /lb	40257	21410
SURFACE TENSION (min) # (Corona Treated surface) (UPF Chemical Coated surface)		ASTM D-2578	dyne/cm	52	
				48	
COF (max) (One side to the other side)		ASTM D-1894	-	0.50	0.50
HAZE (max)		ASTM D-1003	%	4.0	4.5
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm ²	1900	1900
	TD			2000	2000
	MD		(Psi)	27000	27000
	TD			28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	115
	TD			85	90
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	2.0	2.0
			(gm/100 in ² /day)	0.13	0.13
OTR (23° C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day	2.0	2.0
			(cc/100 in ² /day)	0.13	0.13

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