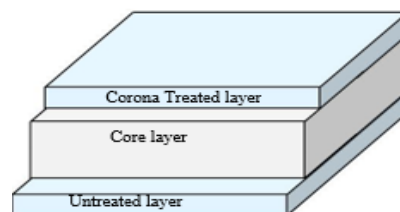


**DESCRIPTION:**

a Biaxially oriented transparent Polyester film with one side corona treatment. The treated surface has higher surface energy which provides excellent adhesion to printing inks and laminating adhesives. The film with excellent optical and mechanical properties.



**PRODUCT FEATURES:**

Superior transparency and high gloss good machinability Good dimensional stability

**APPLICATIONS:**

Printing, Metallizing & lamination process in flexible packaging applications.

PROPERTIES		UNIT	TYPICAL VALUES								TEST METHOD.
PHYSICAL	Thickness	Microns	8	10	11	12	15	19	23	30	ASTM D 374
		Gauge	32	40	44	48	60	76	92	120	
	Grammage	g/m <sup>2</sup>	11.2	14	15.4	16.8	21	26.6	32.2	42	* ABIM
	Yield	m <sup>2</sup> /kg	89.3	71.4	64.9	59.5	47.6	37.5	31.1	23.81	
	Coefficient of Friction (Film/Film)		0.50								
	Surface Tension (Plain Side)	dynes/cm	44								ASTM D 2578
	Surface Tension (corona side)		52								
OPTICAL	Haze	%	≤4.0								ASTM D 1003
	Transmittance		90								ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	2000								ASTM D 882
		*TD	2100								
		MD	29								
		TD	30								
	Elongation at Break	MD	%	115							
TD		100									
THERMAL	Thermal Shrinkage	MD	2.4								ABIM (150°C, 30 min)
		TD	0.4								
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	<60	<50	<40	<40	<<40	<35	<<30	25	ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	<3.8	<3.2	<2.5	<2.5	<2.5	<2.2	<1.9	<1.6	
	Oxygen Transmission Rate (O.T.R.)	cc/m <sup>2</sup> /24h	<140	<135	<130	<130	<130	<110	<90	<70	ASTM D 3985 (23°C / 0% RH)
		cc/in <sup>2</sup> /24h	<8.8	<8.4	<8.1	<8.1	<<8.1	<6.9	<5.6	<4.4	
* ABIM – Akij BOPET Internal Method			*MD – Machine Direction				*TD – Transverse Direction				

**DESCRIPTION:**

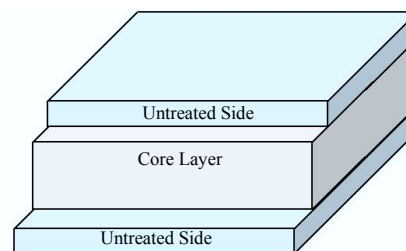
transparent film with both side plain surfaces. The film with excellent optical and mechanical properties, suit printing and lamination application.

**PRODUCT FEATURES:**

Superior transparency and high gloss Good machinability Good dimensional stability

**APPLICATIONS:**

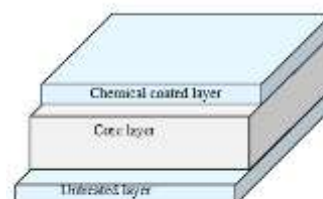
Printing, Metallizing & lamination process in flexible packaging applications.



PROPERTIES		UNIT	TYPICAL VALUES								TEST METHOD.
PHYSICAL	Thickness	Microns	8	10	11	12	15	19	23	30	ASTM D 374
		Gauge	32	40	44	48	60	76	92	120	
	Grammage	g/m <sup>2</sup>	11.2	14	15.4	16.8	21	26.6	32.2	42	* ABIM
	Yield	m <sup>2</sup> /kg	89.3	71.4	64.9	59.5	47.6	37.5	31.1	23.81	
	Coefficient of Friction (Film/Film)		0.45								
Surface Tension (Plain Side)	dynes/cm	44								ASTM D 2578	
OPTICAL	Haze	%	≤4.5								ASTM D 1003
	Transmittance		90								ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	2000								ASTM D 882
		*TD	2100								
		MD	29								
		TD	30								
	Elongation at Break	MD	115								ASTM D 882
TD		100									
THERMAL	Thermal Shrinkage	MD	2.4								ABIM (150°C, 30 min)
		TD	0.4								
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	60	50	40	40	40	35	30	25	ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	3.8	3.2	2.5	2.5	2.5	2.2	1.9	1.6	
	Oxygen Transmission Rate (O.T.R.)	cc/m <sup>2</sup> /24h	140	135	130	130	130	110	90	70	ASTM D 3985 (23°C / 0% RH)
		cc/in <sup>2</sup> /24h	8.8	8.4	8.1	8.1	8.1	6.9	5.6	4.4	
* ABIM – Akij BOPET Internal Method			*MD – Machine Direction				*TD – Transverse Direction				

**DESCRIPTION:**

a Biaxially oriented transparent Polyester film with one side acrylic coating. The coated surface gives excellent adhesion to a wide range of inks & laminating adhesives thus improving the bond strength of the flexible laminate. . The other side of the film surface can be also corona treated. The film process has good thermal, mechanical, optical, and surface properties along with excellent transparency and dimensional stability.



**PRODUCT FEATURES:**

Superior transparency and high gloss good machinability Good dimensional stability

**APPLICATIONS:**

Flexible packaging  
 Printing, Coating & lamination  
 Frozen food packaging  
 Hot filled application like Tomato Ketchup, juices, etc.

PROPERTIES		UNIT	TYPICAL VALUES								TEST METHOD.
PHYSICAL	Thickness	Microns	8	10	11	12	15	19	23	30	ASTM D 374
		Gauge	32	40	44	48	60	76	92	120	
	Grammage	g/m <sup>2</sup>	11.2	14	15.4	16.8	21	26.6	32.2	42	* ABIM
	Yield	m <sup>2</sup> /kg	89.3	71.4	64.9	59.5	47.6	37.5	31.1	23.81	
	Coefficient of Friction (Film/Film)		0.50								
	Surface Tension (Acrylic side)	dynes/cm	40								ASTM D 2578
	Surface Tension(Corona side)		52								
OPTICAL	Haze	%	≤4.0								ASTM D 1003
	Transmittance		90								ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	2000								ASTM D 882
		*TD	2100								
		MD	29								
		TD	30								
	Elongation at Break	MD	115								ASTM D 882
		TD	100								
THERMAL	Thermal Shrinkage	MD	2.4								ABIM (150°C, 30 min)
		TD	0.4								
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	<60	<50	<40	<40	<40	<35	<30	<25	ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	<3.8	<3.2	<2.5	<2.5	<2.5	<2.2	<1.9	<1.6	
	Oxygen Transmission Rate (O.T.R.)	cc/m <sup>2</sup> /24h	<140	<135	<130	<130	<130	<110	<90	<70	ASTM D 3985 (23°C / 0% RH)
		cc/in <sup>2</sup> /24h	<8.8	<8.4	<8.1	<8.1	<8.1	<6.9	<5.6	<4.4	
			*ABIM – Akij BOPET Internal Method			*MD – Machine Direction			*TD – Transverse Direction		



**DESCRIPTION:**

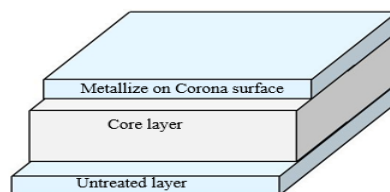
a Biaxially oriented Polyester Metallized film. Metallize on corona treated surface having excellent barrier properties enhanced metal to film bonding, excellent machineability and high Barrier.

**PRODUCT FEATURES:**

Excellent light barrier enhances self-life, good optical density, outstanding barrier to moisture gas and odors

**APPLICATIONS:** Metallized films

is suitable for flexible packaging application like snacks, chips, extruded food & tea etc.



PROPERTIES		UNIT	TYPICAL VALUES								TEST METHOD.
PHYSICAL	Thickness	Microns	8	10	11	12	15	19	23	30	ASTM D 374
		Gauge	32	40	44	48	60	76	92	120	
	Grammage	g/m <sup>2</sup>	11.2	14	15.4	16.8	21	26.6	32.2	42	* ABIM
	Yield	m <sup>2</sup> /kg	89.3	71.4	64.9	59.5	47.6	37.5	31.1	23.81	
	Coefficient of Friction (Film/Film)		0.54								ASTM D 1894
	Surface Tension (Plain side)	dynes/cm	44								ASTM D 2578
	Surface Tension (Metal side)		52								
OPTICAL	Optical Density (Tolerance±5%)	%	2.2								* ABIM
MECHANICAL	Tensile Strength at Break	*MD	2000								ASTM D 882
		*TD	2100								
	MD	kpsi	29								
	TD		30								
Elongation at Break	MD	%	110								ASTM D 882
	TD		100								
THERMAL	Thermal Shrinkage	MD	2.4								ABIM (150°C ,30 min)
		TD	0.4								
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	<1.0								ASTM F 1249 (38°C / 90% RH)
	Oxygen Transmission Rate (O.T.R.)	cc/m <sup>2</sup> /24h	<1.0								ASTM D 3985 (25°C / 0% RH)
			* ABIM – Akij BOPET Internal Method			*MD – Machine Direction			*TD – Transverse Direction		

FOOD PACKAGING				
Category	Film	Film Description	Thickness (µm)	
	Type		Standard	Restricted
Transparent	THo	Transparent Both Side Heat Sealable, One Side Corona Treated BOPP Film	15, 18, 20, 25, 30, 40	
	TNo	Transparent Non Heat Sealable, One Side Corona Treated BOPP Film	15, 18, 20, 25, 30, 40	
	THoW	Transparent Both Side Heat Sealable, One Side Mild Corona Treated BOPP Film for Overwrapping	18, 20, 25, 30	
	TNb-PL	Transparent Thin Non Heat Sealable, Both Side Corona Treated BOPP Film	10	
	TNn	Transparent Non Heat Sealable, One Side Mild Corona Treated BOPP Film	25, 30	
Matt	Matt-WL	Matt Both Side Heat Sealable, one side Corona Treated BOPP Film	15, 18, 20	
	Matt-PL	Matt One Side Heat Sealable, Both Side Corona Treated BOPP Film	12, 15	
White Voided	PRL	Pearlized Cavitated Both Side Heat Sealable, One Side Corona Treated BOPP Film	25, 30	
	PRL-LD	Pearlized Cavitated Both Side Heat Sealable, One Side Corona Treated, Low Density BOPP Film	25, 30	

FOOD PACKAGING				
Category	Film	Film Description	Thickness (µm)	
	Type		Standard	Restricted
Solid White	WSo	Solid White Both Side Heat Sealable, One Side Corona Treated BOPP Film	20, 40	
Metallized	MZ	Standard Barrier, Metallized One Side, Other Side Heat Sealable BOPP Film	15, 18, 20, 25, 30, 40	
	MZ-111	Standard Barrier, Metallized One Side, Other Side Improved SIT, Heat Sealable BOPP Film	15, 18	
	MZ-HB	Medium Barrier, Metallized One Side, Other Side Heat Sealable BOPP Film	15, 18	
	MZ-UHB	High Barrier, Metallized One Side, Other Side Heat Sealable BOPP Film	15, 18	

CPP				
Category	Film	Film Description	Thickness (µm)	
	Type		Standard	Restricted
Transparent	CTHo	Transparent Both Side Heat Sealable, One Side Corona Treated CPP Film	20, 25, 30, 40	
Metallized	CMZ	Metallized One Side, Other Side Heat Sealable CPP Film	15, 18, 20, 25, 30, 40, 50	
	CMZ-HB	High barrier Metallized One Side, Other Side Heat Sealable CPP Film	20, 25	
	CMZ-WS	White Metallized One Side, Other Side Heat Sealable CPP Film	40	
Solid White	CWSo	Solid White Both Side Heat Sealable, One Side Corona Treated CPP Film	20, 25	

LABELS					
Category	Label Application	Film	Film Description	Thickness (µ)	
	Type	Type		Standard	Restricted
Transparent	WAL	THoL	Transparent Label One Side Corona Treated BOPP Film	40	
	WAL	TNoL	Transparent Label High Gloss One Side Corona Treated BOPP Film	40	
White Voided	WAL	PWL	White Cavitated Label, One Side Corona Treated BOPP Film	38	
Solid White					
Metallized					

INDUSTRIAL				
Category	Film Type	Film Description	Thickness (µ)	
			Standard	Restricted
Transparent	CG44H	Cigarette Inner Wrap, Both Side Sealable Non-Treated BOPP Film	20	
	THo-SG	Transparent Both Side Heat Sealable, One Side Corona Treated BOPP Film for Soap Grade	20, 40	
	TNoT	Transparent Non Heat Sealable, One Side Corona Treated BOPP Film for Tape Grade	23, 25	
Transparent	PRL-SG	Pearlized Cavitated Both Side Heat Sealable, One Side Corona Treated BOPP Film for Soap Wrap	25	

DEVELOPMENTAL				
Category	Application	Film Type	Film Description	Thickness (µ)
Transparent	Cigarette Over Wrap	CG99N	Cigarette Naked Wrap, Both Side Sealable Non-Treated BOPP Film	23
White Voided				
Metallized				