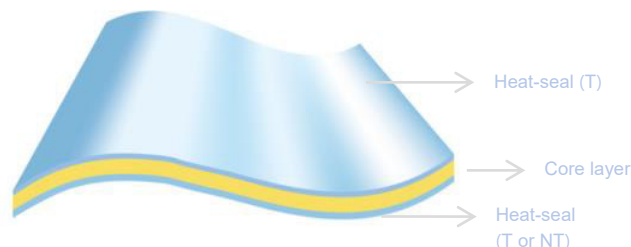


**H** is both sides heat-sealable BOPP film designed for VFFS/HFFS particularly suited.  
(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

## KEY FEATURES

- Outstanding heat seal strength
- Good slip and antistatic property
- Excellent dimensional stability
- Excellent moisture barrier
- Good printing on corona treated side



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	<b>300 (both sides heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

## TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE			
THICKNESS			micron	Micrometer	15	17,18,20,21	22,25,28,30	38,40,50
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 3%			
DENSITY			g/cm³	ASTM D-1505	0.91			
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	120		125		
	TD			240		250		
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	260		260		
	TD			75		75		
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204	4.5	4.0	4.0		
	TD		120°C, 5 minutes	2.0	2.0	2.0		
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.60				
	NT/NT			0.60				
HAZE			% (max)	ASTM D-1003-61	2.5		3.0	
GLOSS (angle 60°)			GU (min)	ASTM D-2457	125		125	
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	Dynes/cm (min)	ASTM D-2578	38			
		NT			-			
	BOTH SIDES TREATED	I			37			
		O			36			
SEAL TEMPERATURE		T/T	°C	Lower plate 80° C, 1 bar, 1 sec	120-125		125-130	130-135
		NT/NT			120-125		120-125	120-125
SEAL STRENGTH <sup>3</sup>		T/T	N/15 mm (min)	width 15 mm	2.0		2.0	2.0
		NT/NT			2.0		2.0	2.0

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup>COF is measured after produced and the value can be changed during storage.

<sup>2</sup>Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup>Treated side is designed for printing and lamination and not designed for sealant layer.

## YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	25	42.68-45.32	22.07-23.43
17	62.76-66.64	15.01-15.93	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
20	53.34-56.64	17.65-18.75	38	28.08-29.81	33.54-35.62
21	50.80-53.95	18.54-19.68	40	26.67-28.32	35.31-37.49
22	48.50-51.49	19.42-20.62	50	21.34-22.66	44.14-46.87

## DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

## A.J. Plast (Vietnam) Co., Ltd.

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Binh Duong Province, Vietnam.

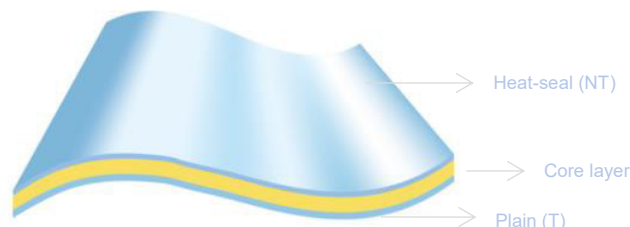
Tax: 370 301 3449  
Company Phone: +84 (0) 274-380-3456  
Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

**HLP** is one side heat-sealable BOPP film designed for VFFS/HFFS particularly suited.  
(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

### KEY FEATURES

- Low sealing initial temperature (SIT) for NT side
- Outstanding heat seal strength
- Good slip and antistatic property
- Good dimensional stability
- Excellent moisture barrier
- Good printing on corona treated side



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	<b>100 or 200 (One heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side	P	Plain side
TD	Transverse Direction	NT	Non-Treated side	H	Heat-sealable side

TYPICAL PROPERTIES		UNIT		TEST METHODS	TYPICAL VALUE	
THICKNESS		micron		Micrometer	15,18,20	25,28,30,40,50
AVERAGE THICKNESS VARIATION		micron		ASTM E-252-78	± 3%	
DENSITY		g/cm³		ASTM D-1505	0.91	
TENSILE STRENGTH	MD	N/mm²	(min)	ASTM D-882	120	
	TD				250	
ELONGATION AT BREAK	MD	%	(max)	ASTM D-882	270	
	TD				75	
DIMENSIONAL STABILITY	MD	%	(max)	ASTM D-1204 120°C, 5 minutes	5.0	4.0
	TD				2.0	2.0
COF (kinetic) <sup>1</sup>	T/T (P)		(max)	ASTM D-1894	0.40	
	NT/NT (H)				0.40	
HAZE		%		(max)	ASTM D-1003-61	3.0
GLOSS (angle 60°)		GU		(min)	ASTM D-2457	125      120
WETTING TENSION <sup>2</sup>	T (P)	Dynes/cm	(min)	ASTM D-2578	38	
	NT (H)				-	
SEAL TEMPERATURE	NT/NT (H)	°C		Lower plate 80° C, 1 bar, 1 sec	106-112	
SEAL STRENGTH <sup>3</sup>	NT/NT (H)	N/15 mm	(min)	width 15 mm	2.5	3.0

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup> Treated side is designed for printing and lamination and not designed for sealant layer.

### YIELD & G.S.M. DATA

THICKNESS	YIELD	G.S.M	THICKNESS	YIELD	G.S.M
micron	m <sup>2</sup> /kg	g/m <sup>2</sup>	micron	m <sup>2</sup> /kg	g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
25	42.68-45.32	22.07-23.43	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)

WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER

max. 1000 mm

LENGTH RANGE

standard 4000 m to 12000 m (upon request)

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Website: <http://ajplast.com.vn/>

Version: R01

Issue Date: 7<sup>th</sup> Aug 2024

Revised Date: xx.xx.xxxx

## 90% PIR, LOW SIT & LOW COF COEX BOPP Film

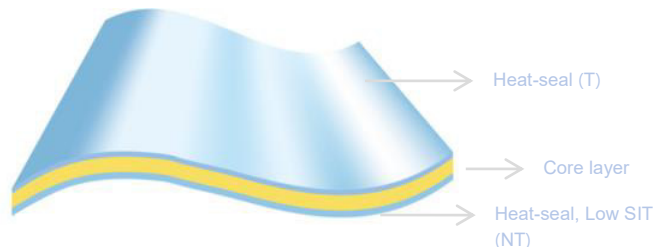
HLR is a BOPP film composed of 90% post-industrial resin (PIR) with both sides heat sealable. HLR is designed for VFFS/HFFS particularly suited.

(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

### KEY FEATURES

- Sustainability solution
- Low initial sealing temperature (SIT) at NT side
- High heat-seal strength
- Good slip and anti-static properties
- Good dimensional stability

<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	<b>300 (both sides heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011



### TECHNICAL DATA

MD Machine Direction T Treated side  
TD Transverse Direction NT Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	15,17,18	20,25	30,35,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm³	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	100	110	110
	TD			230	230	230
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	250	250	250
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204	4.0		
	TD		120°C, 5 minutes	2.0		
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.35		
	NT/NT			0.35		
HAZE		% (max)	ASTM D-1003-61	3.0		3.5
GLOSS (angle 60°)		GU (min)	ASTM D-2457	110		110
WETTING TENSION <sup>2</sup>	T	Dynes/cm (min)	ASTM D-2578	38		
	NT			-		
SEAL TEMPERATURE	T/T	°C	Lower plate 80° C, 1 bar, 1 sec	125-130		130-135
	NT/NT			106-112		106-112
SEAL STRENGTH <sup>3</sup>	T/T	N/15 mm (min)	width 15 mm	2.0		
	NT/NT			3.0		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup> Treated side is designed for printing and lamination and not designed for sealant layer.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	30	35.56-37.76	26.48-28.12
17	62.76-66.64	15.01-15.93	35	30.48-32.37	30.89-32.81
18	59.27-62.94	15.89-16.87	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
25	42.68-45.32	22.07-23.43	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 4000 m to 12000 m (upon request)

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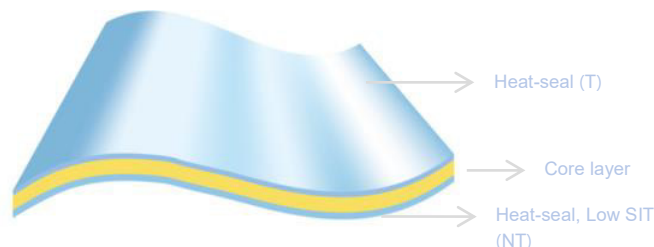
Version: R01  
Issue Date: 29<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

**HSL** is a BOPP film designed both sides heat-sealable for VFFS/HFFS particularly suited.  
(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

### KEY FEATURES

- Low initial sealing temperature (SIT) at NT side
- High heat-seal strength
- Excellent slip and anti-static properties
- Excellent dimensional stability
- Good printing on corona treated side

<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	<b>300 (both sides heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011



### TECHNICAL DATA

MD	Machine Direction	T	Treated side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE			
THICKNESS		micron	Micrometer	15,17,18	20,21	25	30,35,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%			
DENSITY		g/cm³	ASTM D-1505	0.91			
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	120		125	
	TD			240		250	
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	260		260	
	TD			75		75	
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204	4.5	4.0	4.0	
	TD		120°C, 5 minutes	2.0	2.0	2.0	
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.35			
	NT/NT			0.35			
HAZE		% (max)	ASTM D-1003-61	3.0			
GLOSS (angle 60°)		GU (min)	ASTM D-2457	110			
WETTING TENSION <sup>2</sup>	T	Dynes/cm (min)	ASTM D-2578	38			
	NT			-			
SEAL TEMPERATURE	T/T	°C	Lower plate 80° C, 1 bar, 1 sec	120-125		125-130	130-135
	NT/NT			106-112		106-112	106-112
SEAL STRENGTH <sup>3</sup>	T/T	N/15 mm (min)	width 15 mm	2.0		2.0	2.0
	NT/NT			3.0		3.0	3.0

Remark: Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup> Treated side is designed for printing and lamination and not designed for sealant layer.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	25	42.68-45.32	22.07-23.43
17	62.76-66.64	15.01-15.93	30	35.56-37.76	26.48-28.12
18	59.27-62.94	15.89-16.87	35	30.48-32.37	30.89-32.81
20	53.34-56.64	17.65-18.75	38	28.08-29.81	33.54-35.62
21	50.80-53.95	18.54-19.68	40	26.67-28.32	35.31-37.49
22	48.50-51.49	19.42-20.62	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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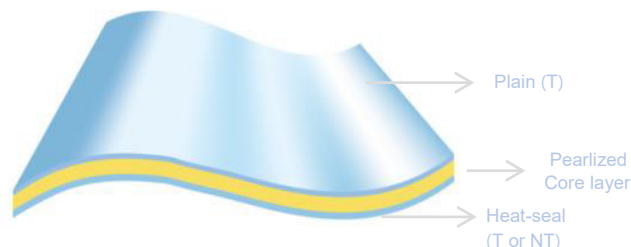
Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

## One Side Seal PEARLIZED BOPP Film

**OHP** a pearalized BOPP film with one side heat sealable layer for VFFS/HFFS.  
(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

### KEY FEATURES

- Pearalized premium looks
- Glossy appearance
- Good antistatic property
- Lower density & Higher yield
- Outstanding anti-static properties



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both sides corona treatment
<b>Film class</b>	<b>100 or 200 (One heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520

### TECHNICAL DATA

MD	Machine Direction	T	Treated side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS			micron	Micrometer	25,28	30	35,38,40
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 2	± 2	± 2
DENSITY			g/cm <sup>3</sup>	ASTM D-1505	0.70-0.76		
TENSILE STRENGTH	MD	N/mm <sup>2</sup>	(min)	ASTM D-882	60	60	60
	TD				100	120	120
ELONGATION AT BREAK	MD	%	(min)	ASTM D-882	90	100	100
	TD				20	30	30
DIMENSIONAL STABILITY	MD	%	(max)	ASTM D-1204 120°C, 5 minutes	3.0		
	TD				2.0		
COF (kinetic) <sup>1</sup>	T/T		(max)	ASTM D-1894	0.45		
	NT/NT				0.45		
OPACITY			%	(min)	Color meter	75	
GLOSS (angle 60°)			GU	(min)	ASTM D-2457	50	
WETTING TENSION	ONE SIDE TREATED	P	Dynes/cm	(min)	ASTM D-2578	38	
		H				-	
	BOTH SIDES TREATED	P				38	
		H				36	
SEALING TEMPERATURE <sup>3</sup>	ONE SIDE TREATED	H (NT/NT)	°C	lower plate 80°C 1 bar, 1 sec	120-125		125-130
	BOTH SIDES TREATED	H (T/T)			130-135		130-135
SEAL STRENGTH <sup>3</sup>	ONE SIDE TREATED	H (NT/NT)	N/15mm	(min)	1 bar, 1 sec, width 15 mm	2.0	
	BOTH SIDES TREATED	H (T/T)				1.5	

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup> Treated side is designed for printing and lamination and not designed for sealant layer.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
25	48.73-62.11	16.10-20.52	35	35.56-43.29	23.10-28.12
28	43.86-54.95	18.20-22.80	38	32.89-39.68	25.20-30.40
30	41.12-51.02	19.60-24.32	40	31.33-37.59	26.60-31.92

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 4000 m to 12000 m (upon request)

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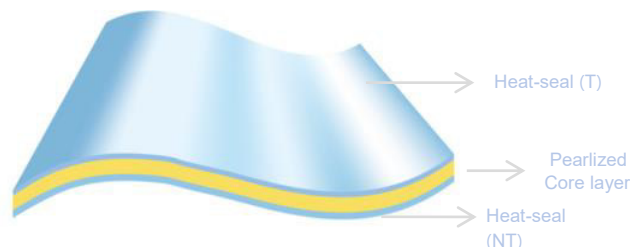
Tax: 370 301 3449  
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Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

**OP** is a pearlized BOPP film with both sides heat sealable layer for VFFS/HFFS particularly suited.  
(VFFS Vertical form fill seal) (HFFS Horizontal form fill seal)

### KEY FEATURES

- Pearlized premium looks
- Outstanding heat seal strength
- Good antistatic property
- Lower density & Higher yield
- Good printing on corona treated side



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	<b>300 (both sides heat-seal)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE				
THICKNESS		micron	Micrometer	25	28	30,35,38	40	50,72
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 2	± 2	± 2	± 2	± 2
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.70-0.76				
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	60	60	60	60	60
	TD			100	120	120	150	150
ELONGATION AT BREAK	MD	%	ASTM D-882	90	100	100	120	120
	TD			20	30	30	30	30
DIMENSIONAL STABILITY	MD	%	ASTM D-1204 120°C, 5 minutes	4.0				
	TD			2.0				
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50				
	NT/NT			0.50				
OPACITY		% (min)	Color meter	75				
GLOSS (angle 60°)		GU (min)	ASTM D-2457	35				
WETTING TENSION <sup>2</sup>	T	Dynes/cm (min)	ASTM D-2578	38				
	NT			-				
SEAL TEMPERATURE	T/T	°C	Lower plate 80° C, 1 bar, 1 sec	130-135				
	NT/NT			120-125	125-130	125-130	125-130	130-135
SEAL STRENGTH <sup>3</sup>	T/T	N/15 mm (min)	width 15 mm	2.0				
	NT/NT			2.0				

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

<sup>3</sup> Treated side is designed for printing and lamination and not designed for sealant layer.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
25	48.73-62.11	16.10-20.52	38	32.89-39.68	25.20-30.40
28	43.86-54.95	18.20-22.80	40	31.33-37.59	26.60-31.92
30	41.12-51.02	19.60-24.32	50	25.30-29.76	33.60-39.52
35	35.56-43.29	23.10-28.12	72	17.78-20.41	49.00-56.24

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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Website: <http://ajplast.com.vn/>

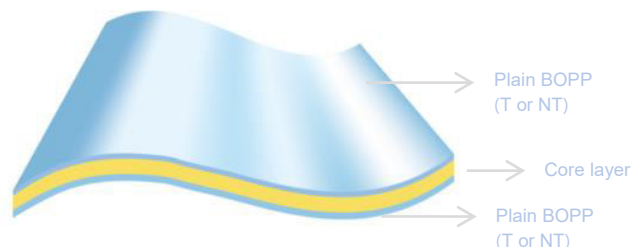
Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx



**P** is plain BOPP film with corona treated designed for printing and laminating applications. Both side non-treated is designed for cut-seal bag.

## KEY FEATURES

- Corona treated side has good adhesion to ink and adhesive
- Excellent mechanical properties
- Excellent thermal stability
- Good optical properties
- Good resistance to oil and grease



<b>Surface Treatment</b>	0: non-treated 1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	000
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

## TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE				
THICKNESS			micron	Micrometer	12,14,15	18,19	20,21,22,23	25,28,29,30,35,37,38	40,42,45,50
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 3%				
DENSITY			g/cm³	ASTM D-1505	0.91				
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	130	130	130	120	110	
	TD			260	270	270	270	270	
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210	210	210	
	TD			70	70	70	70	70	
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5		4.0			
	TD			2.0		2.0			
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50					
	NT/NT			0.50					
HAZE			% (max)	ASTM D-1003-61	2.0		2.0	2.5	
GLOSS (angle 60°)			GU (min)	ASTM D-2457	145		145	145	
WETTING TENSION <sup>2</sup>	NON-TREAT	I	Dynes/cm (min)	ASTM D-2578	-				
		O			-				
	ONE SIDE TREATED	T			38				
		NT			-				
	BOTH SIDES TREATED	I			38				
		O			37				

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

## YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
12	88.91-94.41	10.59-11.25	22	48.50-51.49	19.42-20.62	37	28.83-30.62	32.66-34.68
14	76.21-80.92	12.36-13.12	23	46.39-49.26	20.30-21.56	38	28.08-29.81	33.54-35.62
15	71.13-75.53	13.24-14.06	25	42.68-45.32	22.07-23.43	40	26.67-28.32	35.31-37.49
18	59.27-62.94	15.89-16.87	28	38.10-40.46	24.72-26.24	42	25.40-26.97	37.07-39.37
19	56.15-59.63	16.77-17.81	29	36.79-39.07	25.60-27.18	45	23.71-25.18	39.72-42.18
20	53.34-56.64	17.65-18.75	30	35.56-37.76	26.48-28.12	48	22.23-23.60	42.37-44.99
21	50.80-53.95	18.54-19.68	35	30.48-32.37	30.89-32.81	50	21.34-22.66	44.14-46.87

## DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)

WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER

max. 1000 mm

LENGTH RANGE

standard 3000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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Tax: 370 301 3449

Company Phone: +84 (0) 274-380-3456

Website: <http://ajplast.com.vn/>

Version: R01

Issue Date: 27<sup>th</sup> May 2023

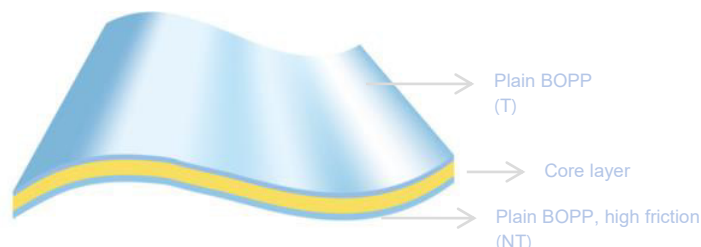
Revised Date: xx.xx.xxx

## High Friction Plain BOPP Film

PF is high friction plain BOPP film. Corona treated side designed for printing and suitable for stack end used application.

### KEY FEATURES

- High quality of printing
- Good adhesion to ink and adhesive
- Good mechanical properties
- Good clarity
- High surface friction on non-treated side



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	000 (Plain film)
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	15,18	19,20	25,30
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	120		
	TD			260		
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210		
	TD			70		
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (static) <sup>1</sup>	T/T		ASTM D-1894	0.40-0.80		
	NT/NT			0.40-0.80		
COF (kinetic) <sup>1</sup>	T/T		ASTM D-1894	0.30-0.60		
	NT/NT			0.35-0.60		
HAZE		% (max)	ASTM D-1003-61	2.0		
GLOSS (angle 60°)		GU (min)	ASTM D-2457	145		
WETTING TENSION <sup>2</sup>	T	Dynes/cm (min)	ASTM D-2578	38		
	NT			-		

Remark: Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	20	53.34-56.64	17.65-18.75
18	59.27-62.94	15.89-16.87	25	42.68-45.32	22.07-23.43
19	56.15-59.63	16.77-17.81	30	35.56-37.76	26.48-28.12

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 6000 m to 24000 m (upon request)

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Company Phone: +84 (0) 274-380-3456  
Website: <http://ajplast.com.vn/>

Version: PF-R01  
Issue Date: 12<sup>th</sup> SEP 2023  
Revised Date: xx.xx.xxxx

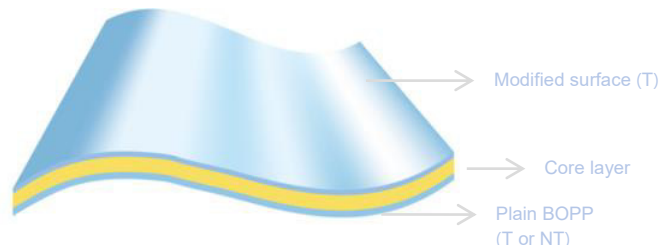


## Plain BOPP Film, High Printing Quality

**PJ** is a special plain BOPP film designed for high print quality applications also offering excellent ink bond strength and good lamination qualities.

### KEY FEATURES

- Excellent adhesion to ink
- Excellent mechanical properties
- Good thermal stability
- Excellent optical properties
- High printing quality
- Good resistance to oil and grease



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	<b>000</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE	
THICKNESS			micron	Micrometer	15	18,20,23,25,28,30 38,40,50
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 3%	
DENSITY			g/cm <sup>3</sup>	ASTM D-1505	0.91	
TENSILE STRENGTH	MD		N/mm <sup>2</sup> (min)	ASTM D-882	130	110
	TD				270	270
ELONGATION AT BREAK	MD		% (max)	ASTM D-882	210	210
	TD				70	70
DIMENSIONAL STABILITY	MD		% (max)	ASTM D-1204 120°C, 5 minutes	5.0	4.0
	TD				2.0	2.0
COF (kinetic) <sup>1</sup>	T/T		(max)	ASTM D-1894	0.45	
	NT/NT				0.45	
HAZE			% (max)	ASTM D-1003-61	2.0	
GLOSS (angle 60°)			GU (min)	ASTM D-2457	145	
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	Dynes/cm (min)	ASTM D-2578	38	
		NT			-	
	BOTH SIDES TREATED	I			38	38
		O			36	37

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
20	53.34-56.64	17.65-18.75	38	28.08-29.81	33.54-35.62
23	46.39-49.26	20.30-21.56	40	26.67-28.32	35.31-37.49
25	42.68-45.32	22.07-23.43	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 4000 m to 12000 m (upon request)

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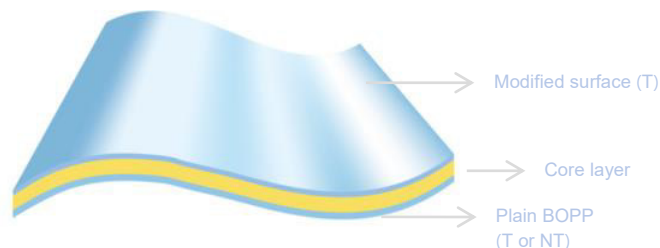
Tax: 370 301 3449  
Company Phone: +84 (0) 274-380-3456  
Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

**PJR** is a special plain BOPP film composed of 30% post-industrial resin (PIR) which is internally reprocess from BOPP film by A.J. PLAST. PJR is designed for high print quality applications also offering excellent ink bond strength and good lamination qualities.

### KEY FEATURES

- Sustainability solution
- High printing quality
- Good mechanical properties
- Good optical properties
- Good resistance to oil and grease
- Outstanding anti-static performance



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	000
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE	
THICKNESS			micron	Micrometer	18,20,23,25,28	30,40,50
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 3%	
DENSITY			g/cm <sup>3</sup>	ASTM D-1505	0.91	
TENSILE STRENGTH	MD	N/mm <sup>2</sup>	(min)	ASTM D-882	120	110
	TD				260	260
ELONGATION AT BREAK	MD	%	(max)	ASTM D-882	220	220
	TD				70	70
DIMENSIONAL STABILITY	MD	%	(max)	ASTM D-1204 120°C, 5 minutes	4.5	
	TD				2.0	
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.40		
	NT/NT			0.40		
HAZE			% (max)	ASTM D-1003-61	3.0	3.5
GLOSS (angle 60°)			GU (min)	ASTM D-2457	140	145
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	Dynes/cm (min)	ASTM D-2578	38	38
		NT			-	-
	BOTH SIDES TREATED	CORONA (I)			38	38
		CORONA (O)			37	37

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
18	59.27-62.94	15.89-16.87	28	38.10-40.46	24.72-26.24
20	53.34-56.64	17.65-18.75	30	35.56-37.76	26.48-28.12
23	46.39-49.26	20.30-21.56	40	26.67-28.32	35.31-37.49
25	42.68-45.32	22.07-23.43	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 3000 m to 12000 m (upon request)

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Website: <http://ajplast.com.vn/>

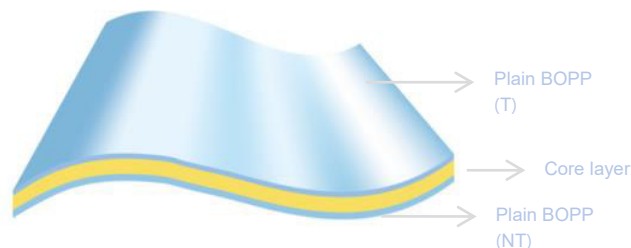
Version: R01  
Issue Date: 29<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

## Low Haze and Low COF Plain BOPP Film

PL is a low friction plain BOPP film. Corona treated side is designed for printing and lamination applications.

### KEY FEATURES

- Low COF on non-treated side
- Good adhesion to ink and adhesive
- Good mechanical properties
- Thermal stability
- Outstanding anti-static performance



Surface Treatment	1: inside corona treatment 2: outside corona treatment
Film class	000
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD Machine Direction T Treated side  
TD Transverse Direction NT Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	17, 18, 19	20, 21	25, 28, 30, 38, 40, 50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	130	130	120
	TD			270	270	270
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50		
	NT/NT			0.35		
HAZE		% (max)	ASTM D-1003-61	1.5	1.5	1.5
GLOSS (angle 60°)		GU (min)	ASTM D-2457	145	145	145
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	ASTM D-2578	38		
		NT		-		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.  
Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
17	62.76-66.64	15.01-15.93	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
19	56.15-59.63	16.77-17.81	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
21	50.80-53.95	18.54-19.68	50	21.34-22.66	44.14-46.87
25	42.68-45.32	22.07-23.43			

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 3000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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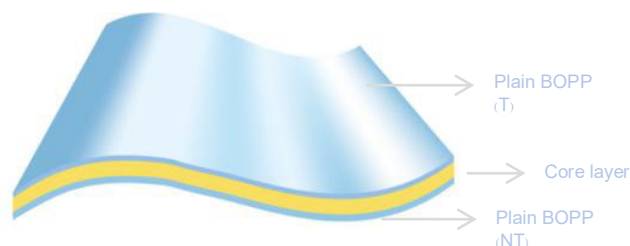
Tax: 370 301 3449  
Company Phone: +84 (0) 274-380-3456  
Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 28<sup>th</sup> SEP 2023  
Revised Date: xx.xx.xxxx

PLL is a low friction plain BOPP film. Corona treated side is designed for printing and lamination applications.

### KEY FEATURES

- Low friction
- Goof clarity
- Good adhesion to ink and adhesive
- Good mechanical properties
- Outstanding anti-static performance



Surface Treatment	1: inside corona treatment 2: outside corona treatment
Film class	000
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD Machine Direction T Treated side  
TD Transverse Direction NT Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	15,17,18,19	20,21	25,28,30,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	130	130	120
	TD			270	270	270
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.10-0.35		
	NT/NT			0.10-0.35		
HAZE		% (max)	ASTM D-1003-61	2.0	2.0	2.0
GLOSS (angle 60°)		GU (min)	ASTM D-2457	145	145	145
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T NT	Dynes/cm (min)	38		
				-		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
17	62.76-66.64	15.01-15.93	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
19	56.15-59.63	16.77-17.81	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
21	50.80-53.95	18.54-19.68	50	21.34-22.66	44.14-46.87
25	42.68-45.32	22.07-23.43			

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)

WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER

max. 1000 mm

LENGTH RANGE

standard 3000 m to 12000 m (upon request)

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Tax: 370 301 3449

Company Phone: +84 (0) 274-380-3456

Website: <http://ajplast.com.vn/>

Version: R01

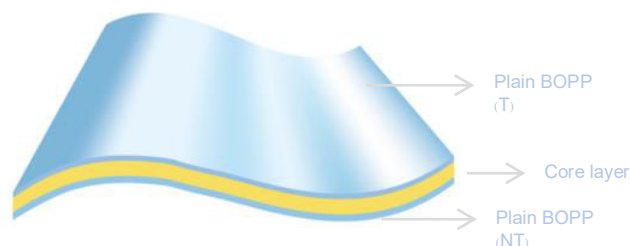
Issue Date: 12<sup>th</sup> May 2025

Revised Date: xx.xx.xxxx

PLL is a low friction plain BOPP film. Corona treated side is designed for printing and lamination applications.

### KEY FEATURES

- Low friction
- Goof clarity
- Good adhesion to ink and adhesive
- Good mechanical properties
- Outstanding anti-static performance



Surface Treatment	1: inside corona treatment 2: outside corona treatment
Film class	000
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD Machine Direction T Treated side  
TD Transverse Direction NT Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	17,18,19	20,21	25,28,30,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	130	130	120
	TD			270	270	270
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.10-0.35		
	NT/NT			0.10-0.35		
HAZE		% (max)	ASTM D-1003-61	2.0	2.0	2.0
GLOSS (angle 60°)		GU (min)	ASTM D-2457	145	145	145
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	ASTM D-2578	38		
		NT		-		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
17	62.76-66.64	15.01-15.93	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
19	56.15-59.63	16.77-17.81	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
21	50.80-53.95	18.54-19.68	50	21.34-22.66	44.14-46.87
25	42.68-45.32	22.07-23.43			

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)

WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER

max. 1000 mm

LENGTH RANGE

standard 3000 m to 12000 m (upon request)

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Website: <http://ajplast.com.vn/>

Version: R01

Issue Date: 12<sup>th</sup> May 2025

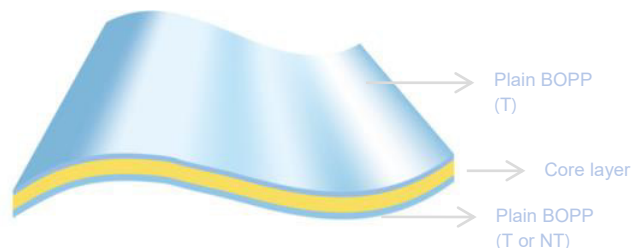
Revised Date: xx.xx.xxxx

## 90% PIR Plain BOPP Film, Low Friction

PLR is a plain BOPP film composed of 90% post-industrial resin (PIR) is internally reprocess from BOPP film by A.J. PLAST. Corona treated side is designed for printing and lamination applications.

### KEY FEATURES

- Sustainability solution
- Low COF on non-treated side
- Good adhesion to ink and adhesive
- Good mechanical properties
- Thermal stability
- Outstanding anti-static performance



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	000
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	17,18,19	20,21	25,28,30,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	110		
	TD			250		
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	230		
	TD			70		
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50		
	NT/NT			0.35		
HAZE		% (max)	ASTM D-1003-61	3.0	3.0	3.5
GLOSS (angle 60°)		GU (min)	ASTM D-2457	140	140	140
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	ASTM D-2578	38		
		NT		-		
	BOTH SIDES TREATED	CORONA (I)		38		
		CORONA (O)		37		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
17	62.76-66.64	15.01-15.93	28	38.10-40.46	24.72-26.24
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
19	56.15-59.63	16.77-17.81	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
21	50.80-53.95	18.54-19.68	50	21.34-22.66	44.14-46.87
25	42.68-45.32	22.07-23.43			

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 3000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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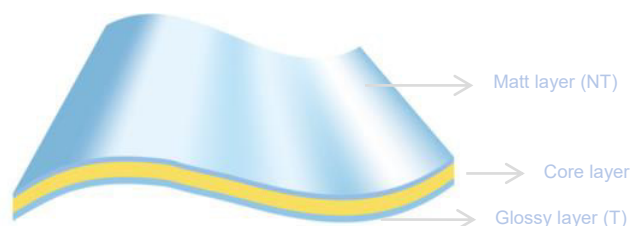
Tax: 370 301 3449  
Company Phone: +84 (0) 274-380-3456  
Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 29<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

PM is BOPP film with matt finished one side and other glossy side for printing and laminating.

### KEY FEATURES

- High haze
- Very fine look of matt layer
- Good dimensional stability
- Outstanding printability
- Density 0.80 g/cm<sup>3</sup>



Surface Treatment	1: inside corona treatment 2: outside corona treatment
Film class	000
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	M	Matt side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	13,15	18	20,30
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 2	± 2	± 2
DENSITY		g/cm³	ASTM D-1505	0.77-0.84		
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	90	100	100
	TD			150	150	170
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	
	TD			2.0	2.0	
COF (kinetic) <sup>1</sup>	M/M	(max)	ASTM D-1894	0.60		
	G/G			0.60		
HAZE		% (min)	ASTM D-1003-61	70	75	
GLOSS (angle 85°)		GU (max)	ASTM D-2457	20	15	
WETTING TENSION <sup>2</sup>		Dynes/cm (min)	ASTM D-2578	38		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value  
Maximum (max), ≤ mean the value specified must be less than or equal to the max value.  
<sup>1</sup> COF is measured after produced and the value can be changed during storage.  
<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
13	79.37-118.06	8.47-12.60
15	70.03-99.90	10.01-14.28
18	59.52-81.17	12.32-16.80
20	54.11-72.15	13.86-18.48
30	37.20-46.48	21.56-26.88

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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Website: <http://ajplast.com.vn/>

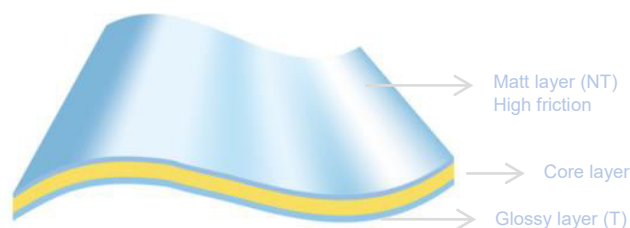
Version: PM-R02  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: 31<sup>st</sup> July 2023



PMF is high friction matt BOPP film with other glossy side for printing and laminating.

### KEY FEATURES

- High friction
- Very fine look of matt layer
- Good dimensional stability
- Outstanding printability
- Density 0.80 g/cm<sup>3</sup>



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment
<b>Film class</b>	000
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	M	Matt side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	15	18	20,30
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 2	± 2	± 2
DENSITY		g/cm³	ASTM D-1505	0.77-0.84		
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	90	100	100
	TD			150	150	170
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204	4.5	4.0	
	TD		120°C, 5 minutes	2.0	2.0	
COF (static) <sup>1</sup>	M/M			0.40-0.80		
	G/G			0.20-0.60		
COF (kinetic) <sup>1</sup>	M/M	(max)	ASTM D-1894	0.40-0.60		
	G/G			0.20-0.50		
HAZE		% (min)	ASTM D-1003-61	70	75	
GLOSS (angle 85°)		GU (max)	ASTM D-2457	20	15	
WETTING TENSION <sup>2</sup>		Dynes/cm (min)	ASTM D-2578	38		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	70.03-99.90	10.01-14.28
18	59.52-81.17	12.32-16.80
20	54.11-72.15	13.86-18.48
30	37.20-46.48	21.56-26.88

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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Website: <http://ajplast.com.vn/>

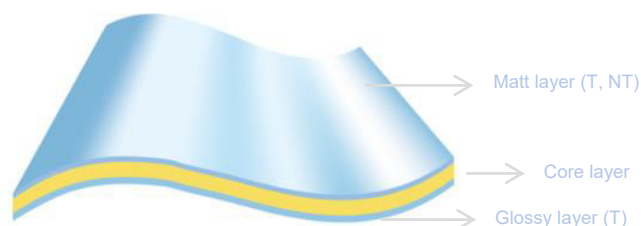
Version: PMF-R01  
Issue Date: 9<sup>th</sup> Sep 2023  
Revised Date: xx.xx.xxxx

## MATT BOPP Film For Thermal Lamination

PML is a specially designed matt BOPP film for thermal lamination.

### KEY FEATURES

- Very fine matt appearance
- Good dimensional stability
- Density 0.86 g/cm<sup>3</sup>



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	<b>000 (plain)</b>
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	M	Matt side	T	Treated side
TD	Transverse Direction	G	Glossy side	NT	Non-Treated side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	12,13	15	18,20
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 2	± 2	± 2
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.84-0.88		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	80	90	100
	TD			140	150	170
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5		4.0
	TD			2.0		2.0
COF (kinetic) <sup>1</sup>	M/M (T)	(max)	ASTM D-1894	0.60		
	M/M (NT)			0.60		
	G/G (T)			0.60		
HAZE		% (min)	ASTM D-1003-61	70.0		
GLOSS (angle 85°)		GU (max)	ASTM D-2457	20.0		
WETTING TENSION <sup>2</sup>	G (T)	Dynes/cm (min)	ASTM D-2578	38		
	M (T)			37		
	M (NT)			< 34		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value  
Maximum (max), ≤ mean the value specified must be less than or equal to the max value.  
<sup>1</sup> COF is measured after produced and the value can be changed during storage.  
<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
12	81.17-119.05	8.40-12.32
13	75.76-108.23	9.24-13.20
15	66.84-91.58	10.92-14.96
18	56.82-74.40	13.44-17.60
20	51.65-66.14	15.12-19.36

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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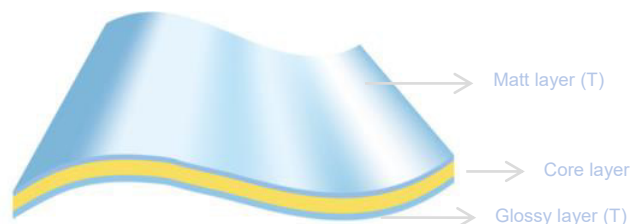
Version: TDS-VN-PML-R01  
Issue Date: 5<sup>th</sup> Jan 2024  
Revised Date: xx.xx.xxxx

## MATT BOPP Film For Paper Lamination

PMV is a specially designed matt BOPP film for lamination.

### KEY FEATURES

- Ultra high haze for paper lamination
- Very fine matt appearance
- Both side surface treatment
- Good dimensional stability
- Density 0.80 g/cm<sup>3</sup>



Surface Treatment	3: Both side corona treatment
Film class	000 (plain)
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	M	Matt side
TD	Transverse Direction	G	Glossy side

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	12,13	15	18,20,30
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 2	± 2	± 2
DENSITY		g/cm³	ASTM D-1505	0.77-0.84		
TENSILE STRENGTH	MD	N/mm² (min)	ASTM D-882	80	90	100
	TD			140	150	170
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	210	210	210
	TD			70	70	70
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204	4.5		4.0
	TD		120°C, 5 minutes	2.0		2.0
COF (kinetic) <sup>1</sup>	M/M	(max)	ASTM D-1894	0.60		
	G/G			0.60		
HAZE		% (min)	ASTM D-1003-61	70.0	78.0	
GLOSS (angle 85°)		GU (max)	ASTM D-2457	20.0	15.0	
WETTING TENSION <sup>2</sup>	G	Dynes/cm (min)	ASTM D-2578	38		
	M			37		

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
12	85.03-129.87	7.70-11.76
13	79.37-118.06	8.47-12.60
15	70.03-99.90	10.01-14.28
18	59.52-81.17	12.32-16.80
20	54.11-72.15	13.86-18.48
30	37.20-46.38	21.56-26.88

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)
WIDTH RANGE	450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER	max. 1000 mm
LENGTH RANGE	standard 4000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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Website: <http://ajplast.com.vn/>

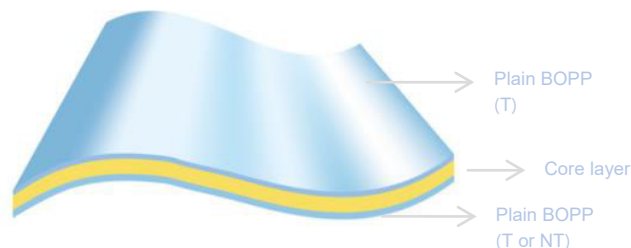
Version: TDS-VN-PMV-R03  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: 12<sup>th</sup> Dec 2023

PP is plain BOPP film designed for printing and laminating applications.

### KEY FEATURES

- Good adhesion to ink and adhesive
- Good mechanical properties
- High thermal stability
- Good clarity

<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
<b>Film class</b>	000
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011



### TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE	
THICKNESS		micron	Micrometer	12,15	17,18,19,20,21,25,28,30,38,40,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%	
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91	
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	110	
	TD			250	
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	230	
	TD			70	
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0
	TD			2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50	
	NT/NT			0.50	
HAZE		% (max)	ASTM D-1003-61	3.0	
GLOSS (angle 60°)		GU (min)	ASTM D-2457	140	
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	ASTM D-2578	38	
		NT		-	
	BOTH SIDES TREATED	CORONA (I)		38	
		CORONA (O)		37	

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
12	88.91-94.41	10.59-11.25	25	42.68-45.32	22.07-23.43
15	71.13-75.53	13.24-14.06	28	38.10-40.46	24.72-26.24
17	62.76-66.64	15.01-15.93	30	35.56-37.76	26.48-28.12
18	59.27-62.94	15.89-16.87	38	28.08-29.81	33.54-35.62
19	56.15-59.63	16.77-17.81	40	26.67-28.32	35.31-37.49
20	53.34-56.64	17.65-18.75	45	23.71-25.18	39.72-42.18
21	50.80-53.95	18.54-19.68	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2500 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 3000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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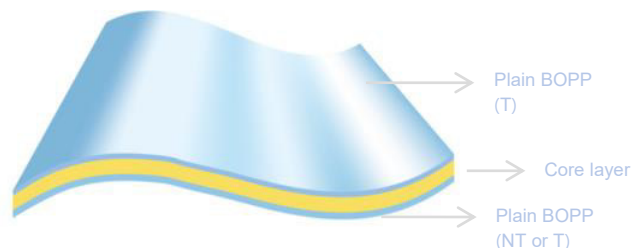
Version: R01  
Issue Date: 27<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx

## High heat resistance BOPP Film

PPJ is a high heat resistance and high stiffness plain BOPP film. Corona treated side is designed for printing and lamination applications.

### KEY FEATURES

- Excellent thermal stability
- High printing quality
- Excellent mechanical properties
- Excellent optical properties
- Good resistance to oil and grease
- Suitable for BOPET replacement (outer layer)



<b>Surface Treatment</b>	1: inside corona treatment 2: outside corona treatment 3: both side treatment
<b>Film class</b>	000 (Plain film)
<b>Food contact</b>	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side
TD	Transverse Direction	NT	Non-Treated side

TYPICAL PROPERTIES			UNIT	TEST METHODS	TYPICAL VALUE	
THICKNESS			micron	Micrometer	18, 20, 25	30, 40
AVERAGE THICKNESS VARIATION			micron	ASTM E-252-78	± 3%	
DENSITY			g/cm³	ASTM D-1505	0.91	
TENSILE STRENGTH	MD	N/mm²	(min)	ASTM D-882	135	
	TD				290	
ELONGATION AT BREAK	MD	%	(max)	ASTM D-882	200	
	TD				70	
DIMENSIONAL STABILITY	MD	%	(max)	ASTM D-1204	3.0	3.0
	TD			120°C, 5 minutes	1.0	1.0
	MD			ASTM D-1204	8.0	7.0
	TD			150°C, 5 minutes	8.0	7.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.45		
	NT/NT			0.45		
HAZE			%(max)	ASTM D-1003-61	2.0	
GLOSS (angle 60°)			GU (min)	ASTM D-2457	145	
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	Dynes/cm (min)	ASTM D-2578	38	
		NT			-	
	BOTH SIDES TREATED	CORONA (I)			38	
		CORONA (O)			37	

Remark; Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
18	59.27-62.94	15.89-16.87	30	35.56-37.76	26.48-28.12
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
25	42.68-45.32	22.07-23.43			

### DESCRIPTION OF SUPPLY

PAPER CORE I.D. 76 mm (3 inches), 152 mm (6 inches)  
WIDTH RANGE 450 mm – 2000 mm (upon request)

ROLL OUTSIDE DIAMETER max. 1000 mm  
LENGTH RANGE standard 6000 m to 12000 m (upon request)

**DISCLAIMER:** The data and information contained herein are given purely as a guide. Technical information is furnished solely as reference concerning the mentioned product without any obligation, end users shall consider suitability for their own adoption & usage. As conditions of use may vary and are beyond our control A.J. Plast (Vietnam) undertakes no responsibility and liability for accuracy of any technical information and results obtained by usage of this product

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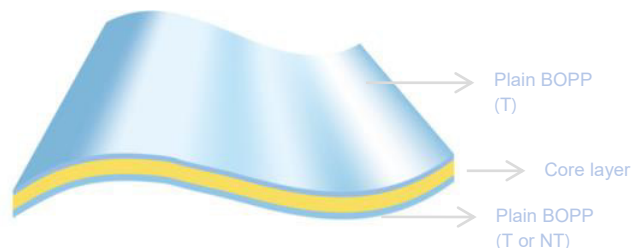
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Website: <http://ajplast.com.vn/>

Version: R01  
Issue Date: 12th DEC 2023  
Revised Date: xx.xx.xxxx

PR is a plain BOPP film composed of 95% post-industrial resin (PIR). Raw material of PR film is BOPP film which internally made by A.J. PLAST. This grade is designed for printing and laminating applications.

### KEY FEATURES

- Sustainability solution
- Good adhesion to ink and adhesive
- Good mechanical properties
- Thermal stability



Surface Treatment	1: inside corona treatment 2: outside corona treatment 3: both side corona treatment
Film class	000
Food contact	FDA US CFR 177.1520 Commission Regulation (EU) No. 10/2011

### TECHNICAL DATA

MD	Machine Direction	T	Treated side	I	Inside
TD	Transverse Direction	NT	Non-Treated side	O	Outside

TYPICAL PROPERTIES		UNIT	TEST METHODS	TYPICAL VALUE		
THICKNESS		micron	Micrometer	15	17,18,19,20,21,25,28,30	35,38,40,45,50
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%		
DENSITY		g/cm <sup>3</sup>	ASTM D-1505	0.91		
TENSILE STRENGTH	MD	N/mm <sup>2</sup> (min)	ASTM D-882	110		
	TD			250		
ELONGATION AT BREAK	MD	% (max)	ASTM D-882	230		
	TD			70		
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 120°C, 5 minutes	4.5	4.0	4.0
	TD			2.0	2.0	2.0
COF (kinetic) <sup>1</sup>	T/T	(max)	ASTM D-1894	0.50		
	NT/NT			0.50		
HAZE		% (max)	ASTM D-1003-61	3.0	3.0	3.5
GLOSS (angle 60°)		GU (min)	ASTM D-2457	140	140	140
WETTING TENSION <sup>2</sup>	ONE SIDE TREATED	T	ASTM D-2578	38		
		NT		-		
	BOTH SIDES TREATED	CORONA (I)		38		
		CORONA (O)		37		

Remark: Minimum (min), ≥ mean the value specified must be higher than or equal to the min value.

Maximum (max), ≤ mean the value specified must be less than or equal to the max value.

<sup>1</sup> COF is measured after produced and the value can be changed during storage.

<sup>2</sup> Wetting tension is measured after produced and the value can be changed during storage.

### YIELD & G.S.M. DATA

THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>	THICKNESS micron	YIELD m <sup>2</sup> /kg	G.S.M g/m <sup>2</sup>
15	71.13-75.53	13.24-14.06	28	38.10-40.46	24.72-26.24
17	62.76-66.64	15.01-15.93	30	35.56-37.76	26.48-28.12
18	59.27-62.94	15.89-16.87	35	30.48-32.37	30.89-32.81
19	56.15-59.63	16.77-17.81	38	28.08-29.81	33.54-35.62
20	53.34-56.64	17.65-18.75	40	26.67-28.32	35.31-37.49
21	50.80-53.95	18.54-19.68	45	23.71-25.18	39.72-42.18
25	42.68-45.32	22.07-23.43	50	21.34-22.66	44.14-46.87

### DESCRIPTION OF SUPPLY

PAPER CORE I.D.	76 mm (3 inches), 152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	450 mm – 2500 mm (upon request)	LENGTH RANGE	standard 3000 m to 12000 m (upon request)

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Version: R01  
Issue Date: 29<sup>th</sup> May 2023  
Revised Date: xx.xx.xxxx