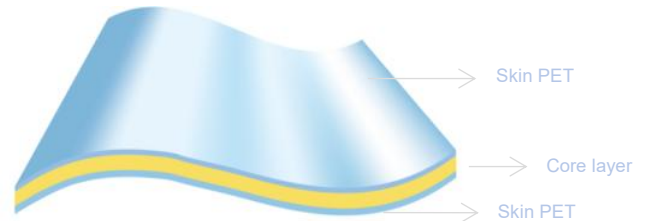


PT is a transparent BOPET film (three layers) designed for printing, laminating and flexible packaging applications. Skins can be treated by corona upon request.

KEY FEATURES

- Good dimensional stability
- High tensile strength
- Uniformity of surface treatment
- High adhesion to ink and adhesive layer



Surface Treatment	0: non-treated 1: inside corona treatment 2: outside corona treatment 3: both sides corona treatment
Film class	000
Food contact	FDA US CFR 177.1630 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	10, 12, 16, 19, 23, 36
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%
DENSITY		g/cm ³	ASTM D-1505	1.40
TENSILE STRENGTH	MD	N/mm ² (min)	ASTM D-882	180
	TD			200
ELONGATION AT BREAK	MD	% (min)	ASTM D-882	110
	TD			100
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 150 °C, 30 minutes	2.0
	TD			1.0
COF (kinetic) ¹	T/T	(max)	ASTM D-1894	0.60
	NT/NT			0.60
HAZE		% (max)	ASTM D-1003-61	3.6
GLOSS (angle 60°)		GU (min)	ASTM D-2457	150
WETTING TENSION ¹	ONE SIDE TREATED	T	ASTM D-2578	52
		NT		-
	BOTH SIDES TREATED	IN		52
		OUT		50

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.
¹ COF and wetting tension are measured after produced and the value can be changed during storage.

YIELD & G.S.M. DATA

THICKNESS micron	YIELD m ² /kg	G.S.M g/m ²
10	69.35-73.64	13.58-14.42
12	57.79-61.36	16.30-17.30
16	43.34-46.02	21.73-23.07
19	36.50-38.76	25.80-27.40
23	30.15-32.02	31.23-33.17
36	19.26-20.45	48.89-51.91

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 36000 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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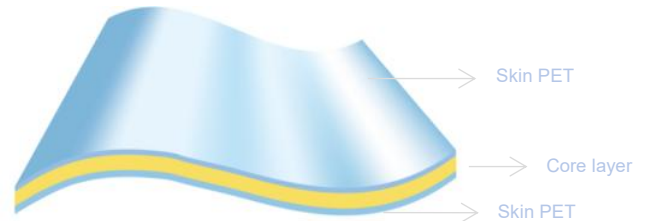
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PTR is a transparent co-extruded BOPET film for retort application. This grade offers balance mechanical and shrinkage properties between MD and TD.

KEY FEATURES

- Balance dimension stability
- Thermal stability
- High tensile strength
- Uniformity of surface treatment

Surface Treatment	0: non-treated 1: inside corona treatment 2: outside corona treatment 3: both sides corona treatment
Film class	000
Food contact	FDA US CFR 177.1630 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	10, 12
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%
DENSITY		g/cm ³	ASTM D-1505	1.40
TENSILE STRENGTH	MD	N/mm ² (min)	ASTM D-882	200
	TD			200
ELONGATION AT BREAK	MD	% (min)	ASTM D-882	100
	TD			100
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 150 °C, 30 minutes	1.5
	TD			0.5
COF (kinetic) ¹	T/T	(max)	ASTM D-1894	0.60
	NT/NT			0.60
HAZE		% (max)	ASTM D-1003-61	4.0
GLOSS (angle 60°)		GU (min)	ASTM D-2457	150
WETTING TENSION ¹	ONE SIDE TREATED	T	ASTM D-2578	52
		NT		-
	BOTH SIDE TREATED	IN		52
		OUT		50

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.
¹ COF and wetting tension are measured after produced and the value can be changed during storage.

YIELD & G.S.M. DATA

THICKNESS	YIELD	G.S.M
micron	m ² /kg	g/m ²
10	69.35-73.64	13.58-14.42
12	57.79-61.36	16.30-17.30

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 36000 m (upon request)

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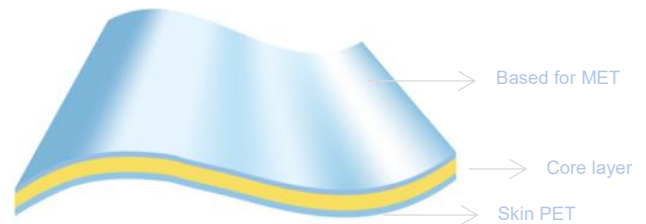
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Version: R01
Issue Date: 27th JANUARY 2026
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VPT is a based BOPET film for metallized one side is specially modified to enhance metal adhesion.

KEY FEATURES

- Good metal adhesion
- High tensile strength
- Uniformity of surface treatment
- Dimensional stability
- Outstanding surface treatment



Surface Treatment	1: inside corona treatment 2: outside corona treatment 3: both sides corona treatment
Film class	000
Food contact	FDA US CFR 177.1630 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	10, 12
AVERAGE THICKNESS VARIATION		micron	ASTM E-252-78	± 3%
DENSITY		g/cm ³	ASTM D-1505	1.40
TENSILE STRENGTH	MD	N/mm ² (min)	ASTM D-882	180
	TD			200
ELONGATION AT BREAK	MD	% (min)	ASTM D-882	110
	TD			100
DIMENSIONAL STABILITY	MD	% (max)	ASTM D-1204 150 °C, 30 minutes	2.0
	TD			1.0
COF (kinetic) ¹	T/T	(max)	ASTM D-1894	0.60
	NT/NT			0.60
HAZE		% (max)	ASTM D-1003-61	4.0
GLOSS (angle 60°)		GU (min)	ASTM D-2457	150
WETTING TENSION ¹	ONE SIDE TREATED	T	ASTM D-2578	54
		NT		-
	BOTH SIDE TREATED	IN		52
		OUT		50

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.
¹ COF and wetting tension are measured after produced and the value can be changed during storage.

YIELD & G.S.M. DATA

THICKNESS micron	YIELD m ² /kg	G.S.M g/m ²
10	69.35-73.64	13.58-14.42
12	57.79-61.36	16.30-17.30

DESCRIPTION OF SUPPLY

PAPER CORE I.D.	152 mm (6 inches)	ROLL OUTSIDE DIAMETER	max. 1000 mm
WIDTH RANGE	1000 mm - 2500 mm (upon request)	LENGTH RANGE	standard 12,000 m to 36000 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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