



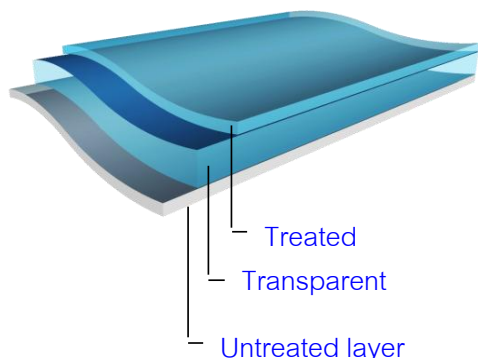
บริษัท ไทยฟิวเจอร์อินคอร์ปอเรชั่น จำกัด (มหาชน)

THAI FUTURE INCORPORATION PUBLIC COMPANY LIMITED

A CERTIFIED ISO 9001 / ISO 14001 COMPANY

B-01

BOPP PLAIN FILM



Description:

This film is widely used in printing and laminating for food and non food packaging application. TFI film offers exceptional clarity. Good dimensional stability, flatness and strength.

Characteristics :

Clarity
Good flatness & high strength
Excellence dimensional stability
Suitable for high speed printing machine
Less electrostatic on film surface

TECHNICAL DATA

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE					
THICKNESS	Micron		Progage	12	15	17	18	19	20
YIELD	m ² /kg		-	91.58	73.26	64.64	61.05	57.84	54.95
DENSITY	g/cm ³		ASTM D-1505	0.91					
AVERAGE THICKNESS VARIATION	%		ASTM E-252	± 3					
TENSILE STRENGTH	kg/mm ² (min)	MD	ASTM D-882	13					
		TD		27					
ELONGATION AT BREAK	%(max)	MD	ASTM D-882	220		200			
		TD		60					
THERMAL SHRINKAGE (120°C 15min.)	%(max)	MD	ASTM D-1204	4.0					
		TD		2.0					
KINETIC C.O.F.	NT/NT		ASTM D-1894	0.35 – 0.50					
WETTING TENSION	Dyne/cm (min)		ASTM D-2578	38					
GLOSS (Angle 45°)	%(min)		ASTM D-2457	85					
HAZE	%(max)		ASTM D-1003	1.8		2.0			
WVTR (38 °C, 90% RH)	g/m ² /24hr (max)		ASTM F-1249	10		9			8
O ₂ TR (23 °C, 0% RH)	cc/m ² /24hr (max)		ASTM D-3985	2200		2100		2000	

DESCRIPTION OF SUPPLY

PAPER CORE I.D.	77 mm (3 in.) 153 mm (6 in.)
ROLL O.D.	max. 800 mm
WIDTH RANGE	100 mm - 1,500 mm. (other width on request), Allowance 0, +3 mm
COMBINATION WIDTH	6,000 mm. or 8,000 mm.
LENGTH RANGE	STANDARD 4,000 m., 6,000 m. (other length on request)
JOINT	maximum 10% per order

Food approval : Complied with US FDA & EU regulations (on request).

Storage condition: Should be kept in dry storage with temperature 30°C - 40°C.

Disclaimer:

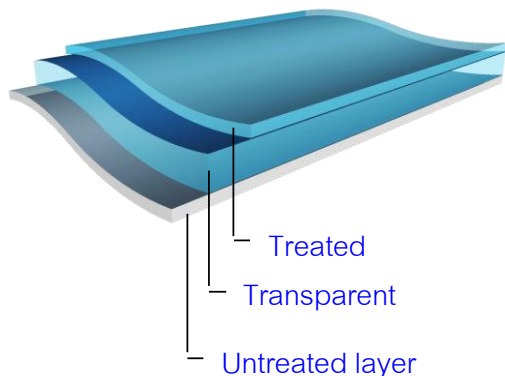
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TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE				
THICKNESS	Micron		Progage	23	25	27	28	30
YIELD	m ² /kg		-	47.78	43.96	40.70	39.25	36.63
DENSITY	g/cm ³		ASTM D-1505	0.91				
AVERAGE THICKNESS VARIATION	%		ASTM E-252	± 3				
TENSILE STRENGTH	kg/mm ² (min)	MD	ASTM D-882	13				
		TD		27				
ELONGATION AT BREAK	%(max)	MD	ASTM D-882	200				
		TD		60				
THERMAL SHRINKAGE (120°C 15min.)	%(max)	MD	ASTM D-1204	4.0				
		TD		2.0				
KINETIC C.O.F.	NT/NT		ASTM D-1894	0.35 – 0.50				
WETTING TENSION	Dyne/cm (min)		ASTM D-2578	38				
GLOSS (Angle 45°)	%(min)		ASTM D-2457	85				
HAZE	%(max)		ASTM D-1003	2.0				
WVTR (38 °C, 90% RH)	g/m ² /24hr (max)		ASTM F-1249	6		5		4
O ₂ TR (23 °C, 0% RH)	cc/m ² /24hr (max)		ASTM D-3985	1800		1700		1600

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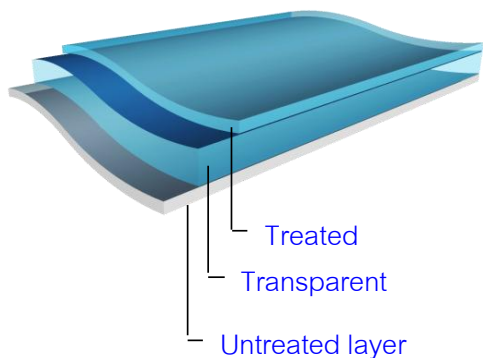
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THICKNESS	Micron		Progage	35	40	42	45	48	50	60
YIELD	m ² /kg		-	31.40	27.47	26.16	24.42	22.89	21.98	18.32
DENSITY	g/cm ³		ASTM D-1505	0.91						
AVERAGE THICKNESS VARIATION	%		ASTM E-252	± 3						
TENSILE STRENGTH	kg/mm ² (min)	MD	ASTM D-882	13						
		TD		27						
ELONGATION AT BREAK	%(max)	MD	ASTM D-882	200						
		TD		60						
THERMAL SHRINKAGE (120°C 15min.)	%(max)	MD	ASTM D-1204	4.0						
		TD		2.0						
KINETIC C.O.F.	NT/NT		ASTM D-1894	0.35 - 0.50						
WETTING TENSION	Dyne/cm (min)		ASTM D-2578	38						
GLOSS (Angle 45°)	%(min)		ASTM D-2457	85						
HAZE	%(max)		ASTM D-1003	2.2						
WVTR (38 °C, 90% RH)	g/m ² /24hr (max)		ASTM F-1249	4	3				2	
O ₂ TR (23 °C, 0% RH)	cc/m ² /24hr (max)		ASTM D-3985	1400	1200	1000		900	800	

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