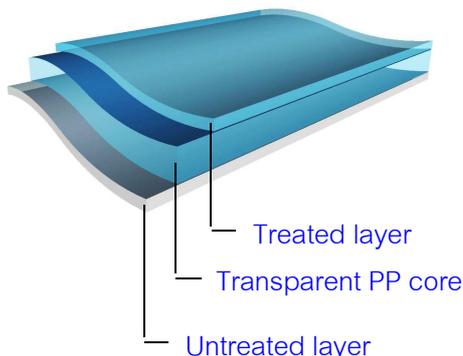




B-01

BOPP PLAIN FOR PRINTING & LAMINATION



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					
			12	15	17	18	19	20
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	13					
		TD	24					
ELONGATION AT BREAK	% (max)	MD	220		200			
		TD	70					
THERMAL SHRINKAGE (120°C 15min.)	% (max)	MD	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.

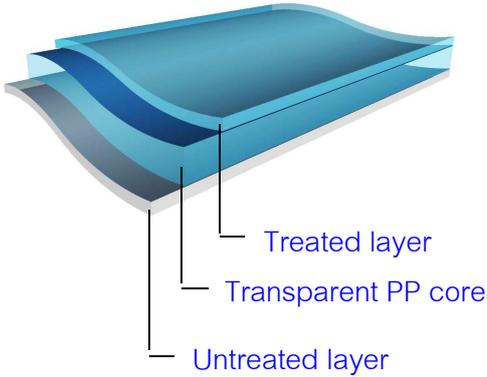
Disclaimer:

The information provided above is accurate to the best of our knowledge. It is however suggested that the customer confirms these values and product compatibility prior to their use. Thai Film Industries PCL offers no guarantees nor accepts any responsibility for the fitness of the product for any particular use.



B-01

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- Excellence dimensional stability
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TECHNICAL DATA

TYPICAL PROPERTIES	UNIT	TEST METHODS	TYPICAL VALUE				
			23	25	27	28	30
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	13				
		TD	24				
ELONGATION AT BREAK	% (max)	MD	200				
		TD	70				
THERMAL SHRINKAGE (120°C 15min.)	% (max)	MD	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		

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:

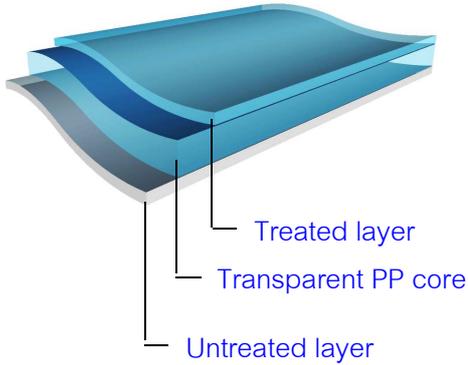
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THAI FILM INDUSTRIES PUBLIC CO., LTD.

B-01

BOPP PLAIN FOR PRINTING & LAMINATION



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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						
			35	40	42	45	48	50	60
THICKNESS	Micron	Progage	35	40	42	45	48	50	60
YIELD	m ² /kg	-	31.4	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	13						
		TD	24						
ELONGATION AT BREAK	% (max)	MD	200						
		TD	70						
THERMAL SHRINKAGE (120°C 15min.)	% (max)	MD	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

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.

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