

# BOPP

CODE PLL

## PLAN PRINTING & LAMINATION BOTH SIDE LOW C.O.F.

Film is a special structure biaxially oriented polypropylene for printing and lamination applications. Both side low C.O.F., good dimensional stability, good moisture barrier and good resistance to oil and grease.

### TECHNICAL DATA

TYPICAL PROPERTIES	UNIT	TEST METHODS	TYPICAL VALUE					
THICKNESS	micron	Micrometer	15	20	25	28	30	
YIELD	m <sup>2</sup> /kg	ASTM D4321	73.26	54.95	43.96	39.25	36.63	
G.S.M.	g/m <sup>2</sup>	Analysis balance	13.65	18.20	22.75	25.48	27.30	
DENSITY	g/cm <sup>3</sup>	ASTM D-1505	0.91	0.91	0.91	0.91	0.91	
AVERAGE THICKNESS VARIATION	%	ASTM E-252-78	± 3	± 3	± 3	± 3	± 3	
TENSILE STRENGTH	N/mm <sup>2</sup>	MD	ASTM D-882	150	150	150	150	150
	(min.)			TD	270	270	270	270
ELONGATION AT BREAK	%	MD	ASTM D-882	170	170	170	170	170
	(max.)			TD	60	60	60	60
DIMENSIONAL STABILITY	%	MD	ASTM D-1204 120 °C, 15 minutes	3.0	3.0	3.0	3.0	3.0
	(max.)			TD	2.0	2.0	2.0	2.0
C.O.F.	(max.)	T/T	ASTM D-1894	0.35	0.35	0.35	0.35	0.35
	(max.)	NT/NT		0.35	0.35	0.35	0.35	0.35
HAZE	%(max.)		ASTM D-1003-61	2.0	2.0	2.0	2.0	2.0
GLOSS (angle 60°)	%(min.)		ASTM D-2457	145	145	145	145	145
WETTING TENSION	Dynes/cm (min.)	Treated side	ASTM D-2578	38	38	38	38	38
WVTR	g/m <sup>2</sup> .day (max.)		ASTM E-398-03 38 °C, 90% RH	10	7	6	5	5
O <sub>2</sub> TR	cm <sup>3</sup> /m <sup>2</sup> .day.bar (max.)		ASTM D-1434-82 23 °C, 0% RH, 1 atm	900	700	600	500	500

\* For both side we treat one side 38 dynes/cm, other side 37 dyne/cm.

### DESCRIPTION OF SUPPLY

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

ROLL OUTSIDE DIAMETER max. 600 mm

WIDTH RANGE 100 mm – 1500 mm. (other width on request)

LENGTH RANGE standard 2000 m, 3000 m, 4000m and 6000 m. (other length on request)

Our Product comply with U.S. 21 CFR F.D.A. Regulation Part 177.1520

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