

# BOPP

## CO-EX PRINTING & LAMINATION FOR LOW C.O.F.

CODE HL

Film is a special structure biaxially oriented polypropylene for printing and lamination applications. Film with both side heat-sealable layer for VFFS/HFFS particularly suited. Excellent one side slip, anti-static property, good moisture barrier, excellent heat seal strength, good dimensional stability and flatness.

### TECHNICAL DATA

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE			
THICKNESS	micron		Micrometer	18	20	22	25
YIELD	m <sup>2</sup> /kg		ASTM D4321	61.05	54.95	49.95	43.96
G.S.M.	g/m <sup>2</sup>		Analysis balance	16.38	18.20	20.02	22.75
DENSITY	g/cm <sup>3</sup>		ASTM D-1505	0.91	0.91	0.91	0.91
AVERAGE THICKNESS VARIATION	%		ASTM E-252-78	± 3	± 3	± 3	± 3
TENSILE STRENGTH	N/mm <sup>2</sup>	MD	ASTM D-882	140	140	140	140
	(min.)	TD		260	260	260	260
ELONGATION AT BREAK	%	MD	ASTM D-882	200	200	200	200
	(max.)	TD		60	60	60	60
DIMENSIONAL STABILITY	%	MD	ASTM D-1204 120 °C, 15 minutes	3.0	3.0	3.0	3.0
	(max.)	TD		4.0	4.0	4.0	4.0
SEALING TEMPERATURE	°C		1 BAR 1 SEC	118-122	118-122	118-122	118-122
SEAL STRENGTH	N/15 mm (min.)		1 BAR 1 SEC, 15 mm	2.0	2.0	2.0	2.0
C.O.F.	T/T		ASTM D-1894	0.3 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.3 ± 0.1
	NT/NT			0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1
HAZE	%(max.)		ASTM D-1003-61	2.5	2.5	2.5	3.0
GLOSS (angle 60°)	%(min.)		ASTM D-2457	125	125	125	125
WETTING TENSION	Dynes/cm	Treated side	ASTM D-2578	38	38	38	38
	(min.)						
WVTR	g/m <sup>2</sup> .day	(max.)	ASTM E-398-03 38 °C, 90% RH	9	8	7	6
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	800	700	600	600

### 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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