

# BOPP

## CO-EX PRINTING & LAMINATION

CODE H

Film is a special structure biaxially oriented polypropylene for packaging printing and lamination applications. Film with both side heat-sealable layer for VFFS/HFFS particularly suited. Excellent slip and 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	30	40	50
YIELD	m <sup>2</sup> /kg	ASTM D4321	36.63	27.47	21.98
G.S.M.	g/m <sup>2</sup>	Analysis balance	27.30	36.40	45.50
DENSITY	g/cm <sup>3</sup>	ASTM D-1505	0.91	0.91	0.91
AVERAGE THICKNESS VARIATION	%	ASTM E-252-78	± 3	± 3	± 3
TENSILE STRENGTH	N/mm <sup>2</sup> MD	ASTM D-882	140	140	140
	(min.) TD		260	260	260
ELONGATION AT BREAK	% MD	ASTM D-882	200	200	250
	(max.) TD		60	60	60
DIMENSIONAL STABILITY	% MD	ASTM D-1204 120 °C, 15 minutes	3.0	3.0	3.0
	(max.) TD		4.0	4.0	4.0
SEALING TEMPERATURE	°C	1 BAR 1 SEC	118-122	118-122	118-122
SEAL STRENGTH	N/15 mm (min.)	1 BAR 1 SEC, 15 mm	2.0	2.0	2.0
C.O.F.	T/T	ASTM D-1894	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1
	NT/NT		0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1
HAZE	%(max.)	ASTM D-1003-61	3.0	3.0	3.0
GLOSS (angle 60°)	%(min.)	ASTM D-2457	125	125	125
WETTING TENSION	Dynes/cm Treated side (min.)	ASTM D-2578	38	38	38
WVTR	g/m <sup>2</sup> .day (max.)	ASTM E-398-03 38 °C, 90% RH	5	4	3
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	450	400	350

### 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. (width on request)

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

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

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