

# BOPP PLAIN BROWN FILM

CODE PR

Film is a special structure biaxially oriented polypropylene for printing and lamination applications. Film designed to meet the requirement of recycle film, good dimensional stability, and good resistance to oil and grease.

## TECHNICAL DATA

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE						
THICKNESS	micron		Micrometer	20	25	28	30	40	45	50
YIELD	m <sup>2</sup> /kg		ASTM D4321	54.95	43.96	39.25	36.63	27.47	24.42	21.98
G.S.M.	g/m <sup>2</sup>		Analysis balance	18.20	22.75	25.48	27.30	36.40	40.95	45.50
DENSITY	g/cm <sup>3</sup>		ASTM D-1505	0.91	0.91	0.91	0.91	0.91	0.91	0.91
AVERAGE THICKNESS VARIATION	%		ASTM E-252-78	± 3	± 3	± 3	± 3	± 3	± 3	± 3
TENSILE STRENGTH	N/mm <sup>2</sup>	MD	ASTM D-882	110	110	110	110	110	110	110
	(min.)	TD		250	250	250	250	250	250	250
ELONGATION AT BREAK	%	MD	ASTM D-882	200	200	200	200	200	200	200
	(max.)	TD		60	60	60	60	60	60	60
DIMENSIONAL STABILITY	%	MD	ASTM D-1204 120 °C, 15 minutes	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	(max.)	TD		4.0	4.0	4.0	4.0	4.0	4.0	4.0
C.O.F.	T/T		ASTM D-1894	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	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	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	2.5	2.5	2.5	2.5
GLOSS (angle 60°)	%(min.)		ASTM D-2457	145	145	145	145	145	145	145
WETTING TENSION	Dynes/cm	Treated side	ASTM D-2578	38	38	38	38	38	38	38
	(min.)									
WVTR	g/m <sup>2</sup> .day	(max.)	ASTM E-398-03 38 °C, 90% RH	7	6	5	5	3	3	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	700	600	500	450	400	350	350

\* 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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