

# M-BOPP

## CO-EX METALLIZED POLYPROPYLENE FILM

CODE MPP

Seal Temp Level 3 Seal Strength Level 2

Offering excellent high barrier/bond strength high gloss of metallic giving supreme appearance; strong texture of BOPP film, two sides heat-sealable, none metalized side offering low sealing temperature.

### TECHNICAL DATA

TYPICAL PROPERTIES	UNIT	TEST METHODS	TYPICAL VALUE						
THICKNESS	micron	Micrometer	18	20	25	28	30	38	40
OPTICAL DENSITY	-	DENSITOMETER	2.2 - 2.5	2.2 - 2.5	2.2 - 2.5	2.2 - 2.5	2.2 - 2.5	2.2 - 2.5	2.2 - 2.5
YIELD	m <sup>2</sup> /kg	ASTM D4321	61.05	54.95	43.96	39.25	36.63	28.92	27.47
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	140	140	140	140	140	140	140
	(min.) TD		260	260	260	260	260	260	260
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	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	(max.) TD	120 °C, 15 minutes	4.0	4.0	4.0	4.0	4.0	4.0	4.0
SEALING TEMPERATURE	°C	1 BAR 1 SEC	90-95	90-95	90-95	90-95	90-95	90-95	90-95
SEAL STRENGTH	N/15 mm (min.)	1 BAR 1 SEC, 15 mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.O.F.	Film to Film	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
WVTR	g/m <sup>2</sup> .day	ASTM F-1249-06	0.35	0.35	0.35	0.30	0.30	0.30	0.30
	(max.)	38 °C,90%RH							
O <sub>2</sub> TR	cm <sup>3</sup> /m <sup>2</sup> .day.bar	ASTM D3985	35	35	35	30	30	30	30
	(max.)	23 °C, 0% RH, 1 atm							
METAL ADHESION	%	Tape Test AIMCAL spec	0	0	0	0	0	0	0
	N (min.)	Scotch 610, 6 inch. AJ.Plast Standard	9.0	9.0	9.0	9.0	9.0	9.0	9.0

\*Optical density value specified by customer.

### DESCRIPTION OF SUPPLY

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

ROLL OUTSIDE DIAMETER    max. 1000 mm

WIDTH RANGE                        100 mm – 2000 mm. (width on request)

LENGTH RANGE                    standard 2000 m, 3000 m, 4000m and 6000 m. (length on request up to 36,000 m.)

Base film of metallized film comply with U.S. 21 CFR F.D.A. Regulation Part 177.1520

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