

PROVISIONAL TECHNICAL DATA SHEET

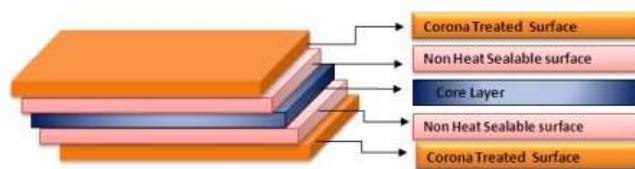
BOPP FILMS
Date: 24 May 2022

Applications:

Printing, Lamination & batch coding (FFS) for flexible packaging.

Special Features:

- Transparent, Non Heat Sealable and Both Side Corona treated.
- Good gloss film with good clarity.
- Good Slip & anti static properties for printing & lamination.
- Suitable for various printing/ Lamination machine.
- Good anchorage of ink and lamination adhesive.
- Good barrier properties.
- Good surface treatment retention.



MICRON(GAUGE) 12, 15, 18, 20, 25, 40 (48, 60, 72, 80, 100, 160)

TYPE **BTBPL** Transparent, Non Heat Sealable, Both side corona treated, for Flexibe Packaging/Board Lamination

PROPERTIES	TEST METHOD	UNIT	12(48) MICRON (GAUGE)	15(60) MICRON (GAUGE)	18(72) MICRON (GAUGE)	20(80) MICRON (GAUGE)	25(100) MICRON (GAUGE)	40(160) MICRON (GAUGE)
PROPERTIES								
NOMINAL THICKNESS	Polyplex Method	Micron	12	15	18	20	25	40
YIELD	Polyplex Method	m2/kg	92.1	73.7	61.4	55.2	44.2	27.6
GRAMMAGE (GSM)	Polyplex Method	gm/m2	10.9	13.6	16.3	18.1	22.6	36.2
MECHANICAL PROPERTIES								

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TENSILE STRENGTH								
MD	ASTM D-882	kg/cm ²	1200	1200	1200	1200	1200	1200
TD	ASTM D-882	kg/cm ²	2400	2400	2400	2400	2400	2400
ELONGATION AT BREAK								
MD	ASTM D-882	%	185	185	180	180	180	185
TD	ASTM D-882	%	60	60	60	60	60	60
MODULUS OF ELASTICITY								
MD	ASTM D-882	kg/cm ²	13000	13000	13000	13000	13000	13000
TD	ASTM D-882	kg/cm ²	19000	19000	19000	19000	19000	19000
THERMAL PROPERTIES								
HEATSHRINKAGE (AT 120 DEG. C FOR 5 MIN)								
MD	ASTM D-1204	%	5.0	4.5	4.5	4.0	4.0	4.0
TD	ASTM D-1204	%	2.5	2.5	2.5	2.0	2.0	2.0
SURFACE PROPERTIES								
CO-EFFICIENT OF FRICTION, (F/M)								
	ASTM D-1894		0.35	0.35	0.35	0.35	0.35	0.35
SURFACE TENSION								
MIN	ASTM D-2578	Dyne/cm	38	38	38	38	38	38
OPTICAL PROPERTIES								
HAZE								
	ASTM D-1004	%	1.5	1.5	1.5	1.6	1.6	2.0
GLOSS AT 45°								
	ASTM D-2457		95	95	95	95	95	95

MD – Machine Direction, TD – Transverse Direction.

Material Handling Guidelines:

1. Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within Six months for plain BOPP and three months for Metalized BOPP from the date of production.
2. Polyplex BOPP Film to be conditioned to reach operating room temperature 24 hours before use. Film characteristics are maintained for six months from the date of production except for metalized layer surface tension.
3. It is advised to use inline corona treatment in metalized film for good adhesion.