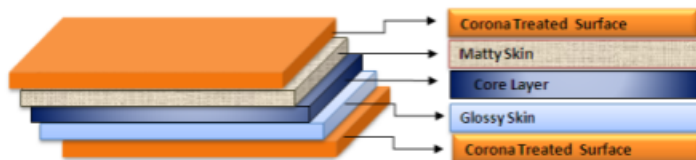


**Application: -**

Printing where matte /Paper appearance is required & Lamination for flexible packaging.

**Special Feature: -**

- One side matte, other side glossy & both side Corona treated.
- Good machinability.
- Glossy side is specially designed for good anchoring of inks (Printing) & Coating.
- Matty side is designed for batch coding (FFS).
- Good anchoring of lamination adhesive.
- Good Slip & anti static properties for printing & lamination.
- Suitable for various printing/ Lamination machine.
- Good surface treatment retention.



**MICRON(GAUGE)** 13, 15, 18 (52, 60, 72)

**TYPE** **BMNPL** One Side Matt, Other Side Glossy & Both Side Corona Treated BOPP Film

PROPERTIES	TEST METHOD	UNIT	13(52) MICRON (GAUGE)	15(60) MICRON (GAUGE)	18(72) MICRON (GAUGE)
<b>PROPERTIES</b>					
NOMINAL THICKNESS	Polyplex Method	Micron	13	15	18
YIELD	Polyplex Method	m2/kg	85.57	76.74	63.93
GRAMMAGE (GSM)	Polyplex Method	gm/m2	11.29	13.03	15.64

PROPERTIES	TEST METHOD	UNIT	13(52) MICRON (GAUGE)	15(60) MICRON (GAUGE)	18(72) MICRON (GAUGE)
<b>MECHANICAL PROPERTIES</b>					
<b>TENSILE STRENGTH</b>					
MD	ASTM D-882	kg/cm2	1200	1200	1200
TD	ASTM D-882	kg/cm2	2300	2300	2300
<b>ELONGATION AT BREAK</b>					
MD	ASTM D-882	%	185	185	185
TD	ASTM D-882	%	85	85	85
<b>MODULUS OF ELASTICITY</b>					
MD	ASTM D-882	kg/cm2	14000	14000	14000
TD	ASTM D-882	kg/cm2	24000	24000	24000
<b>THERMAL PROPERTIES</b>					
<b>HEATSHRINKAGE (AT 120 DEG. C FOR 5 MIN)</b>					
MD	ASTM D-1204	%	4.5	4.0	4.0
TD	ASTM D-1204	%	2.5	2.0	2.0
<b>SURFACE PROPERTIES</b>					
<b>CO-EFFICIENT OF FRICTION, (F/M)</b>					
MAX	ASTM D-1894		0.4	0.4	0.4
<b>SURFACE TENSION</b>					
MIN	ASTM D-2578	Dyne/cm	38	38	38
<b>OPTICAL PROPERTIES</b>					
<b>HAZE</b>					
MAX	ASTM D-1003	%	75	75	75
<b>GLOSS AT 45°</b>					
GLOSSY SIDE	ASTM D-2457		88	88	88
MATTY SIDE	ASTM D-2457		10	10	10
<b>BARRIER PROPERTIES</b>					

PROPERTIES	TEST METHOD	UNIT	13(52) MICRON (GAUGE)	15(60) MICRON (GAUGE)	18(72) MICRON (GAUGE)
WVTR, 37.7 DEG 90% RH	ASTM F- 1249	g/m2/day	10	8.0	7.0
OTR (23 °C & 0% RH)	ASTM D- 3985	cc/m2/day	2100	1850	1800

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.