

BOPP FILM

Version No.: 197/ 0.2

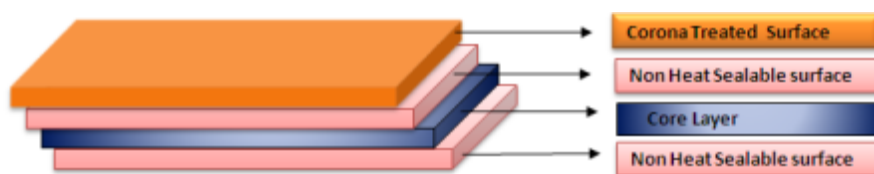
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Applications:

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

Special Features:

- Transparent, Non Heat Sealable & One 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 (48, 60, 72, 80, 100)

TYPE BTOPL Transparent, Non Heat Sealable, One 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)
TYPICAL VALUES							
NOMINAL THICKNESS	Polyplex Method	Micron	12	15	18	20	25
YIELD	Polyplex Method	m2/kg	92.1	73.7	61.4	55.2	44.2
GRAMMAGE (GSM)	Polyplex Method	gm/m2	10.9	13.6	16.3	18.1	22.6
MECHANICAL PROPERTIES							
TENSILE STRENGTH							
MD	ASTM D-882	kg/cm2	1300	1300	1300	1300	1200
TD	ASTM D-882	kg/cm2	2800	2800	2800	2800	2800

PROPERTIES	TEST METHOD	UNIT	12(48) MICRON (GAUGE)	15(60) MICRON (GAUGE)	18(72) MICRON (GAUGE)	20(80) MICRON (GAUGE)	25(100) MICRON (GAUGE)
ELONGATION AT BREAK							
MD	ASTM D-882	%	185	185	180	180	180
TD	ASTM D-882	%	60	60	60	60	60
MODULUS OF ELASTICITY							
MD	ASTM D-882	kg/cm2	13000	13000	13000	13000	13000
TD	ASTM D-882	kg/cm2	25000	25000	25000	25000	25000
THERMAL PROPERTIES							
HEATSHRINKAGE (AT 120 DEG. C FOR 5 MIN)							
MD	ASTM D-1204	%	5.0	5.0	5.0	4.0	4.0
TD	ASTM D-1204	%	3.0	3.0	3.0	2.0	2.0
SURFACE PROPERTIES							
CO-EFFICIENT OF FRICTION, (F/M)							
MAX	ASTM D-1894		0.40	0.40	0.40	0.40	0.40
SURFACE TENSION							
MIN	ASTM D-2578	Dyne/cm	38	38	38	38	38
OPTICAL PROPERTIES							
HAZE							
MAX	ASTM D-1004	%	2.0	2.0	2.3	2.3	2.5
GLOSS AT 45°							
MIN	ASTM D-2457		95	95	95	95	95
BARRIER PROPERTIES							
WVTR, 37.7 DEG 90% RH	ASTM F-1249	g/m2/day	7.5	6.5	5.5	4.5	3.5
OTR (23 °C & 0% RH)	ASTM D-3985	cc/m2/day	2050	1950	1850	1650	1500

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.