

BOPP FILM

Version No.: 5/ 1.2

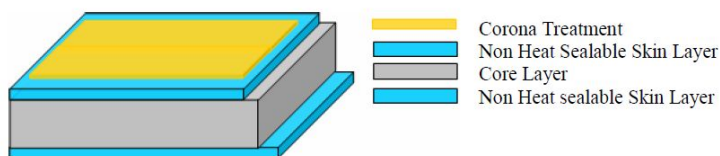
Date: 11 May 2022

Application: -

Textile Bag /Photo album

Special Feature: -

- Transparent, Non Heat Sealable & One Side Corona treated.
- High gloss film with good clarity.
- Good machinability.
- Good mechanical properties.
- Good anchorage of inks on treated side.



MICRON(GAUGE) 21, 23, 29, 34, 37, 45 (84, 92, 116, 136, 148, 180)

TYPE BTNTG Transparent, One Side Corona Treated

PROPERTIES	TEST METHOD	UNIT	21(84) MICRON (GAUGE)	23(92) MICRON (GAUGE)	29(116) MICRON (GAUGE)	34(136) MICRON (GAUGE)	37(148) MICRON (GAUGE)	45(180) MICRON (GAUGE)
TYPICAL VALUES								
NOMINAL THICKNESS	Polyplex Method	Micron	21	23	29	34	37	45
YIELD	Polyplex Method	m2/kg	52.6	48	38.1	32.5	29.9	24.6
GRAMMAGE (GSM)	Polyplex Method	gm/m2	19	20.8	26.2	30.8	33.5	40.7
MECHANICAL PROPERTIES								
TENSILE STRENGTH								
MD	ASTM D-882	kg/cm2	1300	1300	1300	1300	1300	1200
TD	ASTM D-882	kg/cm2	2800	2800	2800	2800	2800	2700

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ELONGATION AT BREAK								
MD	ASTM D-882	%	180	180	180	180	180	180
TD	ASTM D-882	%	80	80	80	80	80	80
MODULUS OF ELASTICITY								
MD	ASTM D-882	kg/cm2	13000	13000	13000	13000	13000	13000
TD	ASTM D-882	kg/cm2	25000	25000	25000	25000	25000	25000
THERMAL PROPERTIES								
HEATSHRINKAGE (AT 120 DEG. C FOR 5 MIN)								
MD	ASTM D-1204	%	4.0	4.0	4.0	4.0	4.0	4.0
TD	ASTM D-1204	%	2.0	2.0	2.0	2.0	2.0	2.0
SURFACE PROPERTIES								
CO-EFFICIENT OF FRICTION, (F/M)								
MAX	ASTM D-1894		0.45	0.45	0.45	0.45	0.45	0.45
SURFACE TENSION								
MIN	ASTM D-2578	Dyne/cm	38	38	38	38	38	38
OPTICAL PROPERTIES								
HAZE								
MAX	ASTM D-1003	%	1.6	1.8	1.8	2.0	2.1	2.5
GLOSS AT 45°								
MIN	ASTM D-2457		95	95	95	95	95	95

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.