

# Ismail Industries Limited



## TECHNICAL DATA SHEET

## PLAIN BOPP FILM

### Product Description

- BOPP Plain is Co-extruded film
- Non sealable and one side treated.

### Application

- Lamination & Printing
- Textile Bags

### Key Features

- Good Printability
- Excellent Clarity
- High Gloss
- Excellent Mechanical Properties

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUES				
			20	25	30	40	
THICKNESS	Internal	Micron	20	25	30	40	
		(Gauge)	80	100	120	160	
DEVIATION of AVG FILM THICKNESS		%	± 5 %	± 5 %	± 5 %	± 5 %	
FILM DENSITY	D-1505	gm/cc	0.9	0.9	0.9	0.9	
GRAMMAGE	Internal	gm/m <sup>2</sup>	18	22.5	27	36	
YIELD	Internal	m <sup>2</sup> /kg	55.5	44.4	37.04	27.77	
TREATMENT LEVEL	D-2578	dyne/cm	≥38	≥38	≥38	≥38	
COEFF OF FRICTION	DYNAMIC D-1894	-	0.35	0.35	0.35	0.35	
HAZE	D-1003	%	1	1	1	1	
GLOSS	D-2457	Unit	140	140	140	140	
TENSILE STRENGTH AT BREAK	D-882	Kg/cm <sup>2</sup>	MD	1300	1300	1300	1300
			TD	2700	2700	2700	2700
		(Psi)	MD	18500	18500	18500	18500
			TD	38000	38000	38000	38000
ELONGATION AT BREAK	D-882	%	MD	190	190	190	190
			TD	60	60	60	60
HEAT SHRINKAGE (AT 135° C AND 5 MIN)	D-1204	MD	5.0	5.0	5.0	5.0	
		TD	3.0	3.0	3.0	3.0	
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m <sup>2</sup> /day	6.5	6.0	6.0	5.5	
		(gm/100in <sup>2</sup> /day)	0.42	0.39	0.39	0.36	
O.T.R. (23°C & 0%RH)	D-3985	cc/m <sup>2</sup> /day	1800	1700	1600	1500	
		(cc/100in <sup>2</sup> /day)	116	110	104	98	

**Storage:** - It is recommended to store below 30°C in order to avoid deterioration of film properties.

**Food Contact:** - Complies with FDA and EC regulations. MSDS are available on request.

**Astro Films comprises of : Ismail Industries Limited (Astro Pack) - Plastiflex Films (Pvt.) Limited**

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