



SML Films Ltd.



SM 100 N

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DESCRIPTION : SM 100 N, Grade film is a co-extruded transparent and untreated bi-axially oriented plain polyester film.

APPLICATION : Suitable for printing, lamination & metallization.

SALIENT FEATURES :

- Good clarity and transparency.
- Good adhesion to inks & lacquers.
- Excellent mechanical & thermal properties.

TECHNICAL DATA SHEET (SM 100 N)

Properties		Test Method	Unit	SM 100 N							
PHYSICAL											
Thickness		ASTM D-374	Micron	8	10	12	15	19	23	36	50
Thickness Variation		SMLTM	%	±5	±5	±5	±5	±5	±5	±5	±5
Average Grammage		SMLTM	g/m ²	11.2	14.0	16.8	21.0	26.6	32.2	50.4	70.0
Density		ASTM D-1505	g/cc	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Width		-	mm	500-3100	500-3100	500-3100	500-3100	500-3100	500-3100	500-3100	500-3100
Length		-	mtr	Up to 60000	Up to 60000	Up to 60000	Up to 36000	Up to 24000	Up to 21000	Up to 18000	Up to 18000
Joints		-	%	80% (NIL)							
				20% (1 Joint)							
OPTICAL											
Haze		ASTM D-1003	%	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0	2.0~3.0
Transmittance		ASTM D-1003	%	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0
MECHANICAL											
Tensile Strength (Min)	MD	ASTM D-882	Kg/cm ²	2300	2300	2300	2300	2300	2300	2200	2000
	TD			2200	2200	2200	2200	2200	2200	2200	2200
Elongation (Min)	MD	ASTM D-882	%	100	100	100	100	100	100	120	120
	TD			100	100	100	100	100	100	100	100
Coefficient of friction (Max)	Static	ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	Kinetic			0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
THERMAL											
Shrinkage (Max) (150°C /30 Min)	MD	ASTM D-1204	%	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
SURFACE											
Wetting Tension	Outside	ASTM D-2578	Dyne/cm	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46
	Inside			44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46

SMLTM : SML TEST METHOD, **MD :** MACHINE DIRECTION , **TD :** TRANSVERSE DIRECTION

- Notes:**
- 1- Tolerance in width +3mm and -0mm.
 - 2- The above properties are indicative only. Film can be produced to suit customer's requirements.

