



SML Films Ltd.



### SM 100 T

Doc No.-F/PRD/02, Rev.-01, Dt.-01.06.2016

**DESCRIPTION :** SM 100 T, Grade film is a co-extruded transparent and corona treated bi-axially oriented 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 T )

Properties	Test Method	Unit	SM 100 T								
<b>PHYSICAL</b>											
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 <sup>2</sup>	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)								
<b>OPTICAL</b>											
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	
<b>MECHANICAL</b>											
Tensile Strength ( Min )	MD	ASTM D-882	Kg/cm <sup>2</sup>	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
<b>THERMAL</b>											
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
<b>SURFACE</b>											
Wetting Tension	Plain	ASTM D-2578	Dyne/cm	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46
	Corona			52-58	52-58	52-58	52-58	52-58	52-58	52-58	52-58

**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.

