



SML Films Ltd.



## SM 810 T

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

**DESCRIPTION** : SM 810 T, **Special Co-polymer chemically coated** film is a co-extruded transparent and corona treated bi-axially oriented polyester film.

**APPLICATION** : Suitable for printing, lamination, metallization, frozen food packaging & hot filled applications like Tomato Ketchup, Juices, etc. And also this film is suitable for retort application.

**SALIENT FEATURES :**

- Good clarity and transparency.
- Excellent adhesion to inks, lacquers & adhesive.
- Excellent metal adhesion when metallized on coated side.
- Excellent mechanical & thermal properties.

## TECHNICAL DATA SHEET ( SM 810 T )

Properties		Test Method	Unit	SM 810 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	
Joins		-	%	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	2000
Elongation ( Min )	MD	ASTM D-882	%	100	100	100	100	100	100	120	120	
	TD			100	100	100	100	100	100	100	100	120
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	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	0.4
<b>SURFACE</b>												
Wetting Tension	Coating	ASTM D-2578	Dyne/cm	54	54	54	54	54	54	54	54	
	Corona			52-58	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.

