



SML Films Ltd.



### SM 811 M

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

**DESCRIPTION** : SM 811 M, **Special Co-polymer chemically coated** film is a co-extruded bi-axially oriented polyester film vacuum aluminium metallised on coating side and other side plain.

**APPLICATION** : Suitable for flexible packaging application, where good barrier and high metal bond is required. Film is also suitable for frozen food packaging & hot filled applications.

**SALIENT FEATURES :**

- High Metal Bond Strength & High gloss properties.
- Good Water Vapour and Gas Barrier properties.
- Excellent Machineability.
- Good Lamination Adhesion.

## TECHNICAL DATA SHEET ( SM 811 M )

Properties		Test Method	Unit	SM 811 M							
<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
Metal Bond Strength (Min)		SMLTM	g/25 mm	500	500	500	500	500	500	500	500
Width		-	mm	510-2450	510-2450	510-2450	510-2450	510-2450	510-2450	510-2450	510-2450
Length		-	mtr	Up to 48000	Up to 48000	Up to 48000	Up to 36000	Up to 24000	Up to 21000	Up to 18000	Up to 18000
<b>OPTICAL</b>											
Optical Density		SMLTM	-	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%	2.2 ± 5%
<b>MECHANICAL</b>											
Tensile Strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup>	2300	2300	2300	2200	2200	2200	2100	2000
	TD			2200	2200	2200	2100	2100	2100	2000	2000
Elongation (Min)	MD	ASTM D-882	%	100	100	100	100	100	100	110	120
	TD			90	90	90	90	90	90	100	110
Coefficient of friction (Base Film), (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	Metal Side	ASTM D-2578	Dyne/cm	54	54	54	54	54	54	54	54
	Plain Side			44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46
<b>BARRIER</b>											
WVTR (38°C & 90% RH) (Max)		ASTM F-1249	g/m <sup>2</sup> /day	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OTR (23°C & 0% RH) (Max)		ASTM D-3985	cc/m <sup>2</sup> /day	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2

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

- Notes:**
- 1- Optical Density up to 2.8 is available on request.
  - 2- Tolerance in width +3mm and -0mm.
  - 3- The above properties are indicative only. Film can be produced to suit customer's requirements.

