



SML Films Ltd.



### SM 801 M

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

**DESCRIPTION :** SM 801 M, 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.

**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 801 M )

Properties	Test Method	Unit	SM 801 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.

