



SML Films Ltd.



## SM 900 N

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

**DESCRIPTION** : SM 900 N, Ultra clear film with **antistatic coating** is a co-extruded untreated bi-axially oriented polyester film.

**APPLICATION** : Suitable for packaging, Printing, lamination and montage application.

**SALIENT FEATURES :**

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

## TECHNICAL DATA SHEET ( SM 900 N )

Properties	Test Method	Unit	SM 900 N					
<b>PHYSICAL</b>								
Thickness	ASTM D-374	Micron	<b>50</b>	<b>75</b>	<b>93</b>	<b>118</b>	<b>128</b>	
Thickness Variation	SMLTM	%	±5	±5	±5	±5	±5	
Average Grammage	SMLTM	g/m <sup>2</sup>	70.0	105.0	130.2	165.2	179.2	
Density	ASTM D-1505	g/cc	1.4	1.4	1.4	1.4	1.4	
Width	-	mm	500-3100	500~3100	500-3100	500-3100	500-3100	
Length	-	mtr	Up to 6500	Up to 6500	Up to 6500	Up to 6000	Up to 6000	
Joints	-	%	80% (NIL)					20% (1 Joint)
<b>OPTICAL</b>								
Haze	ASTM D-1003	%	1.0~2.0	1.0~2.0	1.0~2.0	1.0~2.0	1.0~2.0	
Transmittance	ASTM D-1003	%	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	88.0~89.0	
<b>MECHANICAL</b>								
Tensile Strength ( Min )	MD	ASTM D-882	Kg/cm <sup>2</sup>	2000	1900	1900	1800	1700
	TD			2000	1900	1900	1900	1900
Elongation ( Min )	MD	ASTM D-882	%	120	120	120	130	140
	TD			120	120	120	120	120
Coefficient of friction (Max )	Static	ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50
	Kinetic			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
	TD			0.4	0.4	0.4	0.4	0.4
<b>SURFACE</b>								
Wetting Tension	Coated Side	ASTM D-2578	Dyne/cm	50	50	50	50	50
	Plain Side			44-46	44-46	44-46	44-46	44-46
<b>ELECTRICAL</b>								
Break Down Voltage (Min)	ASTM D-149	KV	9.0	12.0	13.0	14.0	15.0	
Surface resistivity	ASTM D-257	Ohm/Square	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>10</sup>	

**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.

