



SML Films Ltd.



SM 300 N

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

DESCRIPTION : SM 300 N, Grade film is a co-extruded transparent, **ultraclear** and untreated bi-axially oriented plain 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 300 N)

Properties	Test Method	Unit	SM 300 N								
PHYSICAL											
Thickness	ASTM D-374	Micron	23	30	36	50	75	100	118	136	
Thickness Variation	SMLTM	%	±5	±5	±5	±5	±5	±5	±5	±5	
Average Grammage	SMLTM	g/m ²	32.2	42.0	50.4	70.0	105.0	140.0	165.2	190.4	
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 21000	Up to 21000	Up to 18000	Up to 18000	Up to 6500	Up to 6500	Up to 6000	Up to 6000	
Joints	-	%	80% (NIL)								
			20% (1 Joint)								
OPTICAL											
Haze	ASTM D-1003	%	1.0~2.0	1.0~2.0	1.0~2.0	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	88.0~89.0	88.0~89.0	88.0~89.0	
MECHANICAL											
Tensile Strength (Min)	MD	ASTM D-882	Kg/cm ²	2300	2300	2200	2000	1900	1800	1800	1700
	TD			2200	2200	2200	2000	1900	1900	1900	1900
Elongation (Min)	MD	ASTM D-882	%	100	110	120	120	120	130	130	140
	TD			100	100	100	120	120	120	120	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
THERMAL											
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
SURFACE											
Wetting Tension	Outside	ASTM D-2578	Dyne/cm	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46
	Inside			44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46

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.

