



SML Films Ltd.



SM 400 N

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

DESCRIPTION : SM 400 N, **Twist Wrap Grade** film is a co-extruded transparent and untreated bi-axially oriented plain polyester film.

APPLICATION : Suitable for twist wrap packaging for confectionery.

SALIENT FEATURES :

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

TECHNICAL DATA SHEET (SM 400 N)

Properties	Test Method	Unit	SM 400 N				
PHYSICAL							
Thickness	ASTM D-374	Micron	12	15	18	23	
Thickness Variation	SMLTM	%	±5	±5	±5	±5	
Average Grammage	SMLTM	g/m ²	16.8	21.0	25.2	32.2	
Density	ASTM D-1505	g/cc	1.4	1.4	1.4	1.4	
Width	–	mm	500-3100	500-3100	500-3100	500-3100	
Length	–	mtr	Up to 60000	Up to 36000	Up to 24000	Up to 21000	
Joints	–	%	80% (NIL)				
			20% (1 Joint)				
OPTICAL							
Haze	ASTM D-1003	%	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	
MECHANICAL							
Tensile Strength (Min)	MD	ASTM D-882	Kg/cm ²	2400	2300	2200	2200
	TD			2300	2300	2200	2200
Elongation (Min)	MD	ASTM D-882	%	100	100	100	100
	TD			100	100	100	100
Coefficient of friction (Max)	Static	ASTM D-1894	–	0.50	0.50	0.50	0.50
	Kinetic			0.45	0.45	0.45	0.45
THERMAL							
Shrinkage (150°C /30 Min)	MD	ASTM D-1204	%	25.0	25.0	25.0	25.0
	TD			25.0	25.0	25.0	25.0
SURFACE							
Wetting Tension	Outside	ASTM D-2578	Dyne/cm	44-46	44-46	44-46	44-46
	Inside			44-46	44-46	44-46	44-46
SMLTM : SML TEST METHOD, MD : MACHINE DIRECTION , TD : TRANSVERSE DIRECTION Notes: <ol style="list-style-type: none"> 1- Tolerance in width +3mm and -0mm. 2- The above properties are indicative only. Film can be produced to suit customer's requirements. 							

