



Sumilon Polyester Limited

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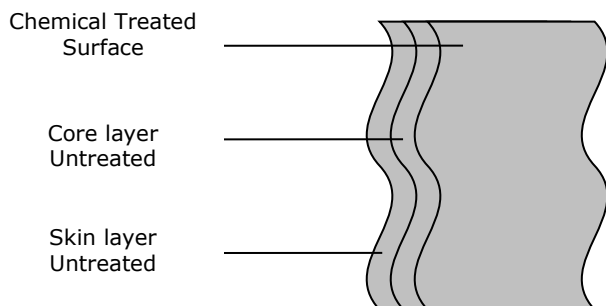
TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

S-251

S-251 grade is a bi-axially oriented transparent chemical coated grade polyester film with one side chemical coated and other side plain. The films possess excellent dimensional stability, good mechanical and optical properties. Film surface is modified to get the very high metal bond strength, excellent ink anchorage.



Main Features:

- ❖ High clarity and transparency
- ❖ Excellent Machinability
- ❖ Dimensionally stable.
- ❖ Excellent mechanical properties.

Applications:

- ❖ Flexible packaging applications.
- ❖ Excellent Adhesion of Inks and Adhesive
- ❖ High metal bond strength

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-251						
PHYSICAL									
Thickness	ASTM E-252	Micron	10	12	15	23	36	50	
Yield	SPTM	m ² /kg	71.4	59.5	47.6	31	19.8	14	
OPTICAL									
Haze (Max)	ASTM D-1003	%	3.5	3.5	3.5	3.5	4.0	4.0	
Total luminous transmittance	ASTM D-1003	%	85	85	85	85	85	85	
MECHANICAL									
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000	2000	2000	2000	1900	1900
	TD	ASTM D-882	Kg/cm ²	1900	1900	1900	1900	1800	1800
Elongation (Min)	MD	ASTM D-882	%	90	90	90	90	100	100
	TD	ASTM D-882	%	90	90	90	90	90	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.65	0.65	0.65	0.60	0.60	0.60
	DY	ASTM D-1894	-	0.60	0.60	0.60	0.55	0.55	0.55
THERMAL									
Shrinkage (MAX) (150°C / 30 min)	MD	ASTM D-1204	%	2.80	2.80	2.80	2.80	2.80	2.80
	TD	ASTM D-1204	%	0.8	0.8	0.8	0.8	0.8	0.8
SURFACE									
Wetting tension	ASTM D-2578	Dyne / cm	54	54	54	54	54	54	
BARRIER									
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm/m ² /day	55	45	38	27	22	18	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc/m ² /day	139	115	92	72	52	32	

Note: Thickness other than mentioned above can be given on customer requirements.

SPTM: SUMILON POLYESTER TEST METHOD, MD: MACHINE DIRECTION, TD: TRANSVERSE DIRECTION

DISCLAIMER

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. Sumilon Polyester Films Limited suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.