



Sumilon Polyester Limited

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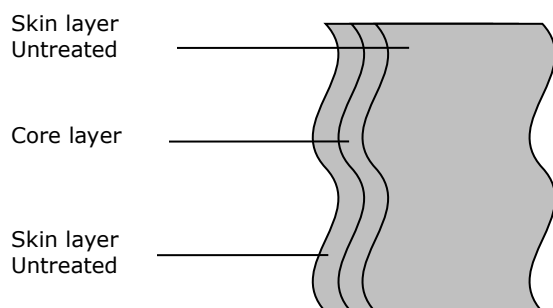
TECHNICAL SPECIFICATION SHEET

S-101

SUPET®

(BIAXIALLY ORIENTED POLYESTER FILMS)

S-101 grade is a bi-axially oriented transparent polyester film with no surface treatment. The film possesses good mechanical, thermal, optical and surface properties. The film is suitable for Printing, lamination & metallization.



Main Features:

- ❖ Good Adhesion to inks
- ❖ Excellent machinability
- ❖ Excellent thermal & mechanical properties
- ❖ Excellent surface for printing & lamination for printing
- ❖ Good Clarity

Applications:

- ❖ Suitable for Printing, lamination & metallisation.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-101							
PHYSICAL										
Thickness	ASTM E-252	Micron	8	10	12	15	23	36	50	
Yield	SPTM	m ² /kg	89.3	71.4	59.5	47.6	31	19.8	14	
OPTICAL										
Haze (Max)	ASTM D-1003	%	3.0	3.0	3.5	3.5	3.5	4.0	4.0	
Total luminous transmittance	ASTM D-1003	%	89	85	85	85	85	85	85	
MECHANICAL										
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000	2000	2000	2000	2000	1900	1900
	TD	ASTM D-882	Kg/cm ²	1900	1900	1900	1900	1900	1800	1800
Elongation (Min)	MD	ASTM D-882	%	90	90	90	90	90	100	100
	TD	ASTM D-882	%	90	90	90	90	90	90	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.65	0.65	0.65	0.65	0.60	0.60	0.60
	DY	ASTM D-1894	-	0.60	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	2.80
	TD	ASTM D-1204	%	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SURFACE										
Wetting tension	ASTM D-2578	Dyne / cm	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46
BARRIER										
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249	gm/m ² /day	75	55	45	38	27	22	18	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985	cc/m ² /day	175	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