



Sumilon Polyester Limited

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TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

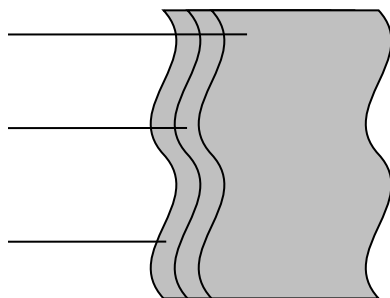
S-300

S-300 grade is a bi-axially oriented hazy grade polyester film with no surface treatment. The film possesses good mechanical, thermal, optical and surface properties. The film is suitable for Electrical and other industrial purpose.

Skin Layer
Untreated

Core layer
Untreated

Skin layer
Untreated



Main Features:

- ❖ Excellent thermal & mechanical properties.
- ❖ Dimensionally stable.

Applications:

- ❖ Suitable for industrial use.
- ❖ Electrical and general purpose applications.

PROPERTIES	TEST METHOD		UNIT	TECHNICAL DATA S-300		
PHYSICAL						
Thickness	ASTM E-252		Micron	12	15	19
Yield	SPTM		m ² /kg	59.5	47.6	37.5
OPTICAL						
Haze (Max)	ASTM D-1003		%	3.0-4.0	3.0-4.0	4.0-5.0
Total luminous transmittance	ASTM D-1003		%	88	88	88
MECHANICAL						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000	2000	2000
	TD	ASTM D-882	Kg/cm ²	1900	1900	1900
Elongation (Min)	MD	ASTM D-882	%	90	90	90
	TD	ASTM D-882	%	90	90	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.60	0.60	0.60
	DY	ASTM D-1894	-	0.55	0.55	0.55
THERMAL						
Shrinkage (MAX) (150°C / 30 min)	MD	ASTM D-1204	%	2.80	2.80	2.80
	TD	ASTM D-1204	%	0.80	0.80	0.80
SURFACE						
Wetting tension	ASTM D-2578		Dyne / cm	44-46	44-46	44-46
ELECTRICAL						
Break Down Voltage	ASTM D-149		KV	2.0	4.0	5.0
BARRIER						
WVTR (38°C & 90% RH) (Max)	ASTM F-1249-06		gm/m ² /day	45	38	33
OTR (23°C & 0% RH) (Max)	ASTM D-3985-05		cc/m ² /day	115	92	82

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.