



Sumilon Polyester Limited

Corporate Office : 6/121/P, Vairagini Wadi, Delhi Gate, Surat - 395003. Gujarat, INDIA

Ph. : 0261 - 2441122 - 55- 66, 6797979

Email : sumilon@sumilon.com

Fax : +91 261 2442952

Web : sumilonpolyfilm.com

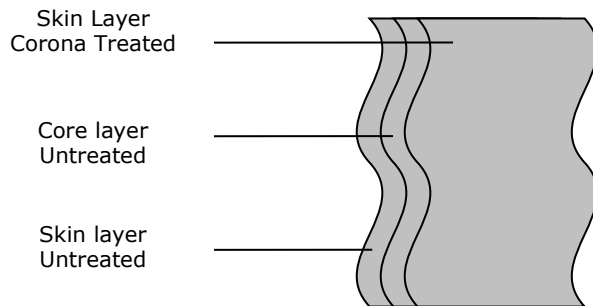
TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

S-301

S-301 grade is a bi-axially oriented hazy grade polyester film with one side corona treated and other side plain. The film possesses good mechanical, thermal, optical and surface properties. The film is suitable for Electrical and other industrial purpose.



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-301						
PHYSICAL									
Thickness	ASTM D-374	Micron	12	15	19	23	36	50	
Yield	SPTM	m ² /kg	59.5	47.6	37.5	31	19.8	14	
OPTICAL									
Haze (Max)	ASTM D-1003	%	3.0-4.0	3.0-4.0	4.0-5.0	3.5	4.0	4.0	
Total luminous transmittance	ASTM D-1003	%	88	88	88	85	85	85	
MECHANICAL									
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000	2000	2000	1900	1900	1900
	TD	ASTM D-882	Kg/cm ²	1900	1900	1900	1800	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	-	0.60	0.60	0.60	0.55	0.60	0.60
	DY	ASTM D-1894	-	0.55	0.55	0.55	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	%	0.80	0.80	0.80	0.80	0.80	0.80
SURFACE									
Wetting tension (Min.)Treated side	ASTM D-2578	Dyne / cm	52	52	52	52	52	52	52
ELECTRICAL									
Break Down Voltage	ASTM D-149	KV	2.0	4.0	5.0	6.0	7.0	9.0	
BARRIER									
WVTR (38°C & 90% RH) (Max)	ASTM F-1249-06	gm/m ² /day	45	38	33	27	22	18	
OTR (23°C & 0% RH) (Max)	ASTM D-3985-05	cc/m ² /day	115	92	82	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.