



# Cable Grade Polyester Film

(Both side untreated film)

**SUPET S-300**

## Product Description

**S-300 grade** is a Bi axially Oriented Hazy polyester film with no surface treatment. The film is characterized by high dielectric constant, High break down voltage, good Mechanical & Thermal stability.

## Product features

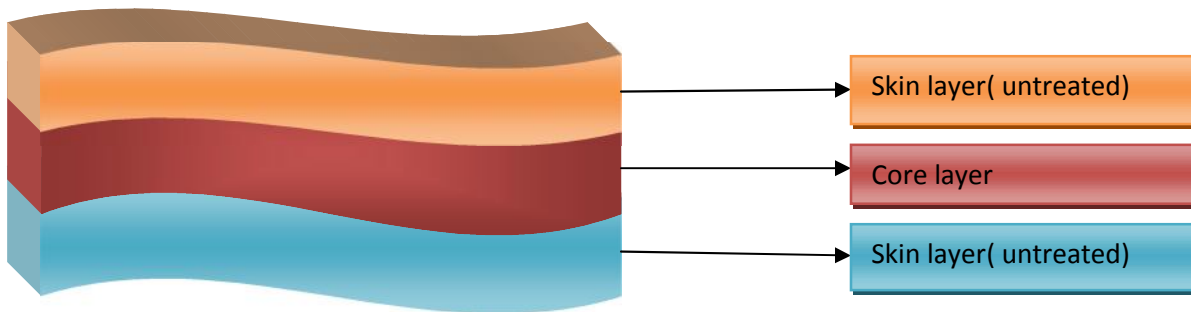
- ❖ High Di electric constant & High break down voltage
- ❖ Excellent Thermo mechanical properties
- ❖ Ensure excellent process ability

## Product Applications

- ❖ Cable wrapping
- ❖ Electrical Insulation in Transformer & Motors

## Food Contact

This film complies with US FDA, EC directive & REACH regulation for food packaging.



**Head Office :** 6/121 A-1, Paiki, Plot no.8, First floor,Vairagini wadi,Delhi gate Surat-395003,Gujarat , INDIA  
TEL. NO: +91-261- 2441122 / 6797979, FAX NO: +91-261-2442952 , **web: [www.sumilon.com](http://www.sumilon.com)**

**WORKS:** 43/P NH-8A, Village Varsana, Talq. Anjar, Gandhidham-370201, Gujarat (India). Phone No.: +91-2836-324900





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### Technical Specification

Properties	Unit	Test Method	Typical Values							
<b>General Properties</b>										
Thickness	Micron	SPTM	12	15	19	23	36	50	75	
Yield	m <sup>2</sup> /kg	SPTM	59	48	38	31	20	14	9.5	
<b>Mechanical Properties</b>										
Tensile Strength (Min)	MD	Kg/cm <sup>2</sup>	ASTM D 882	2100	2100	2100	2100	1900	1900	1800
	TD			2000	2000	2000	2000	1900	1900	1800
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	110	110	110	120
	TD			90	90	90	100	100	100	110
<b>Surface Properties</b>										
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50	0.45
	Dy.			0.45	0.45	0.45	0.45	0.45	0.45	0.45
Wetting Tension on untreated side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	42	
<b>Optical Properties</b>										
Haze (Max)	%	ASTM D 1003	4.0	4.0	4.5	5.0	6.0	7.0	8.0	
Transmittance (Min)	%	ASTM D 1003	88	88	88	88	88	88	88	
<b>Thermal Properties</b>										
Heat Shrinkage @150°C/30minute (Max)	MD	%	ASTM D 1204	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>Electrical Properties</b>										
Break Down Voltage	KV	ASTM D149	3.5	4.5	5.0	6.0	7.0	9.0	12.0	
<b>Barrier Properties</b>										
WVTR(38°C& 90%RH)	gm/m <sup>2</sup> /day	ASTM F 1249	<40	<35	<30	<25	<22	<18	<15	
OTR (23°C & 0 %RH)	cc/m <sup>2</sup> /day	ASTM D3985	<135	<120	<95	<75	<55	<45	<35	

MD : Machine direction TD : Transverse direction SPTM : Sumilon Polyester Test Method

#### Storage & Handling

Rolls are covered by stretch wrap and which may have the chances to attract the dust particles. Use SUPET film on FIFO system and advised to rotate the film stock. The storage hall should be away from flame/ heated substances. Also rolls kept away from the bad weather conditions. The recommended temperature range is 24°C to 35°C with relative humidity of 55-60%. It is recommended that the film should not get exposed to direct Sunlight and water /moisture.

#### Disposal

Disposal of S-300 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-300 has been laminated, coated, printed or metallized, incineration with Energy Recovery is the most environmentally efficient recovery route. It can also be burned in an incinerator with normal refuse. The disposal method should comply with appropriate local and country.

#### 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 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.

**TDS issued on 15/08/2019. All previous version of this grade are invalid.**

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