



# 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

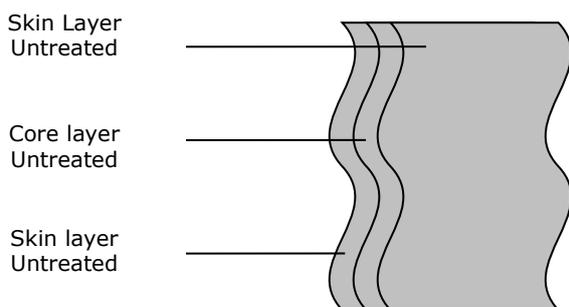
## TECHNICAL SPECIFICATION SHEET

### SUPET<sup>®</sup>

(BIAXIALLY ORIENTED POLYESTER FILMS)

### S-400

S-400 grade is a bi-axially oriented transparent isotropic grade polyester film with medium surface treatment.



#### Main Features:

- ❖ Mechanically isotropic characteristics.
- ❖ Thermally stable.
- ❖ Good optical properties.

#### Applications:

- ❖ Suitable for Lidding applications and for printing, lamination and coatings.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-400				
<b>PHYSICAL</b>							
Thickness	ASTM E-252	Micron	12	23	36	50	
Yield	SPTM	m <sup>2</sup> /kg	59.5	31	19.8	14	
<b>OPTICAL</b>							
Haze (Max)	ASTM D-1003	%	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	
Total luminous transmittance	ASTM D-1003	%	85	83	81	81	
<b>MECHANICAL</b>							
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup>	2000	2000	1900	1900
	TD	ASTM D-882	Kg/cm <sup>2</sup>	1900	1900	1800	1800
Elongation (Min)	MD	ASTM D-882	%	90	90	90	90
	TD	ASTM D-882	%	90	90	90	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.65	0.65	0.60	0.60
	DY	ASTM D-1894	-	0.60	0.60	0.55	0.55
<b>ISOTROPIC</b>							
Ratio OF TS (+45° / -45°)			-	0.6-1.4	0.6-1.4	0.6-1.4	0.6-1.4
Ratio: (F30-Fy)/C	Internal		-	<21	<21	<21	<21
<b>THERMAL</b>							
Shrinkage At 150°C / 30 min. (Max)	MD	ASTM D-1204	%	2.40	2.40	2.40	2.40
	TD	ASTM D-1204	%	0.40	0.40	0.40	0.40
<b>SURFACE</b>							
Wetting tension	ASTM D-2578	Dyne / cm	44-46	44-46	44-46	44-46	
<b>BARRIER</b>							
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m <sup>2</sup> / day	45	27	22	18	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m <sup>2</sup> / day	115	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 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.