



Sumilon Polyester Limited

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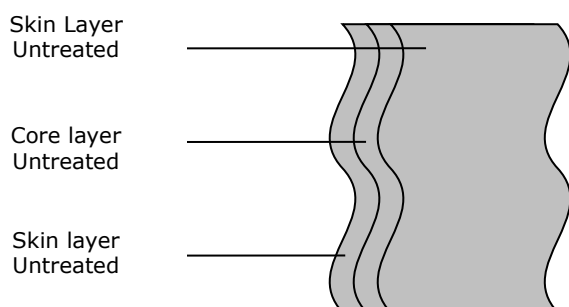
TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

S-500

S-500 grade is a bi-axially oriented matte grade polyester film with medium surface gloss and haze..



Main Features:

- ❖ Good surface gloss
- ❖ Excellent mechanically and thermal properties.
- ❖ Excellent Machinability
- ❖ Silver finish surface

Applications:

- ❖ Carrier for thermal transfer printing, cartoon lamination, label and other flexible packaging applications.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-500				
PHYSICAL							
Thickness	ASTM E-252	Micron	12	23	36	50	
Yield	SPTM	m ² /kg	59	31	20	14	
OPTICAL							
Haze (Max)	ASTM D-1003	%	45	70	80	80	
Transmittance	ASTM D-1003	%	85	83	81	81	
Gloss at 60° angle (Avg.)	ASTM D 2457	%	40	40	42	42	
MECHANICAL							
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	1900	1800	1800	1800
	TD	ASTM D-882	Kg/cm ²	1800	1700	1700	1700
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	-	0.50	0.50	0.50	0.50
	DY	ASTM D-1894	-	0.45	0.45	0.45	0.45
THERMAL							
Shrinkage (MAX) (150°C / 30 min)	MD	ASTM D-1204	%	2.80	2.80	2.80	2.80
	TD	ASTM D-1204	%	0.80	0.80	0.80	0.80
SURFACE							
Wetting tension	ASTM D-2578	Dyne / cm	44-46	44-46	44-46	44-46	
BARRIER							
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m ² / day	45	27	22	18	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m ² / 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.