



# Sumilon Polyester Limited

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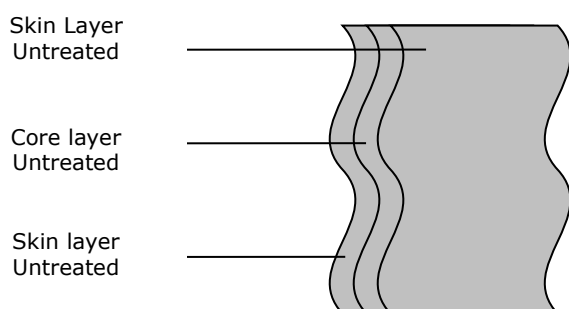
## TECHNICAL SPECIFICATION SHEET

### SUPET®

(BIAXIALLY ORIENTED POLYESTER FILMS)

### S-450

S-450 grade is a bi-axially oriented transparent hot stamping grade polyester film with one side corona treated and other side plain. Film is suitable for transfer foil to displace the design either on paper, textiles or plastics.



#### Main Features:

- ❖ Transfer applications.
- ❖ High clarity and transparency
- ❖ Excellent Machinability
- ❖ Dimensionally stable at high elevated temperatures.
- ❖ Excellent mechanical properties.

#### Applications:

- ❖ High temperature coating, stamping foil.
- ❖ suitable for transfer foil to displace the design either on paper, textiles or plastics.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-450			
<b>PHYSICAL</b>						
Thickness	ASTM E-252	Micron	10	12	15	
Yield	SPTM	m <sup>2</sup> /kg	71.4	59.5	47.6	
<b>OPTICAL</b>						
Haze (Max)	ASTM D-1003	%	2.0-3.0	2.0-3.0	2.0-3.0	
Total luminous transmittance	ASTM D-1003	%	85	85	85	
<b>MECHANICAL</b>						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup>	2200	2200	2200
	TD	ASTM D-882	Kg/cm <sup>2</sup>	2000	2000	2000
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	-	0.65	0.65	0.65
	DY	ASTM D-1894	-	0.60	0.60	0.60
<b>THERMAL</b>						
Shrinkage At 190°C / 5 min. (Max)	MD	ASTM D-1204	%	4.40	4.40	4.40
	TD	ASTM D-1204	%	-0.4	-0.4	-0.4
<b>SURFACE</b>						
Wetting tension (Min.)Treated side	ASTM D-2578	Dyne / cm	52	52	52	
<b>BARRIER</b>						
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m <sup>2</sup> / day	55	45	38	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m <sup>2</sup> / day	139	115	92	

**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.