



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

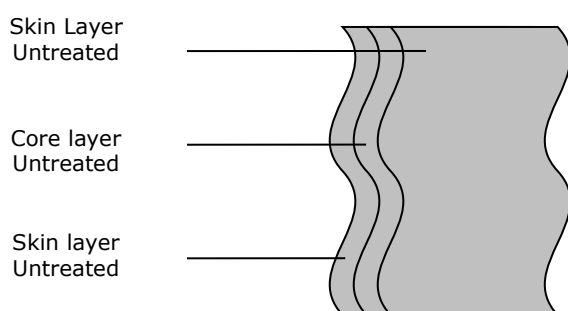
TECHNICAL SPECIFICATION SHEET

SUPET®

(BIAXIALLY ORIENTED POLYESTER FILMS)

S-451

S-451 grade is a bi-axially oriented transparent hot stamping grade polyester film both side untreated. 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-451			
PHYSICAL						
Thickness	ASTM E-252	Micron	10	12	15	
Yield	SPTM	m ² /kg	71.4	59.5	47.6	
OPTICAL						
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	
MECHANICAL						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2200	2200	2200
	TD	ASTM D-882	Kg/cm ²	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
THERMAL						
Shrinkage (MAX) (190°C / 5 min)	MD	ASTM D-1204	%	4.40	4.40	4.40
	TD	ASTM D-1204	%	-0.4	-0.4	-0.4
SURFACE						
Wetting tension (Min.) Treated side	ASTM D-2578	Dyne / cm	44-46	44-46	44-46	
BARRIER						
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m ² / day	55	45	38	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m ² / 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.