



Sumilon Polyester Limited

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TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

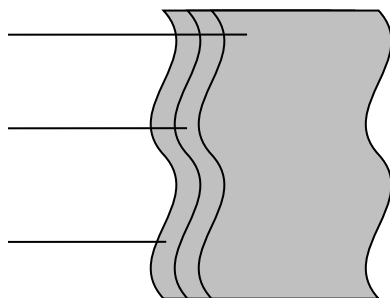
S-401

S-401 grade is a bi-axially oriented transparent isotropic grade polyester film with one side corona treated and other side untreated.

Skin Layer
Untreated

Core layer
Untreated

Skin layer
Untreated



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-401	
PHYSICAL				
Thickness	ASTM E-252	Micron	12	23
Yield	SPTM	m ² /kg	59.5	31
OPTICAL				
Haze (Max)	ASTM D 1003	%	2.0 - 3.5	2.0 - 3.5
Total Luminous Transmission	ASTM D 1003	%	85	83
MECHANICAL				
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000
	TD	ASTM D-882	Kg/cm ²	1900
Elongation (Min)	MD	ASTM D-882	%	90
	TD	ASTM D-882	%	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.65
	DY	ASTM D-1894	-	0.60
ISOTROPIC				
Ratio OF TS (+45° / -45°)			-	0.6-1.4
Ratio: (F30-Fy)/C	Internal		-	<21
THERMAL				
Shrinkage (MAX) (150°C / 30 min)	MD	ASTM D-1204	%	2.40
	TD	ASTM D-1204	%	0.40
SURFACE				
Wetting tension TR Side (Min)	ASTM D-2578	Dyne / cm	52	52
BARRIER				
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m ² / day	45	27
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m ² / day	115	72

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.