



Sumilon Polyester Limited

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TECHNICAL SPECIFICATION SHEET

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

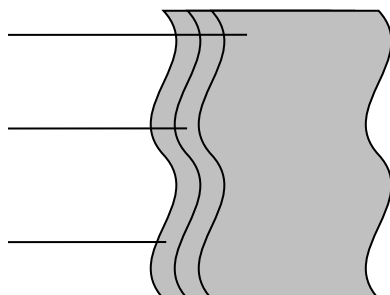
S-151

S-151 grade is a bi-axially oriented transparent yarn grade polyester film with no surface treatment. The films possess excellent dimensional stability at elevated temperature. Film has good mechanical, optical and surface properties.

Skin Layer
Untreated

Core layer
Untreated

Skin layer
Untreated



Main Features:

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

Applications:

- ❖ Metallic and plain yarn application

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA S-151						
PHYSICAL									
Thickness	ASTM E-252	Micron	10	12	15	23	36	50	
Yield	SPTM	m ² /kg	71.4	59.5	47.6	31	19.8	14	
OPTICAL									
Haze (Max)	ASTM D-1003	%	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.5	2.0-3.5	
Total luminous transmittance	ASTM D-1003	%	85	85	85	85	85	85	
MECHANICAL									
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2200	2200	2200	2000	2000	2000
	TD	ASTM D-882	Kg/cm ²	2000	2000	2000	1900	1900	1900
Elongation (Min)	MD	ASTM D-882	%	90	90	90	90	100	100
	TD	ASTM D-882	%	90	90	90	90	90	90
Coefficient of friction (Side-A / B) (Max)	ST	ASTM D-1894	-	0.65	0.65	0.65	0.60	0.60	0.60
	DY	ASTM D-1894	-	0.60	0.60	0.60	0.55	0.55	0.55
THERMAL									
Shrinkage (MAX) (190°C / 5 min)	MD	ASTM D-1204	%	4.40	4.40	4.40	4.40	4.40	4.40
	TD	ASTM D-1204	%	0.00	0.00	0.00	0.00	0.00	0.00
SURFACE									
Wetting tension	ASTM D-2578	Dyne / cm	44-46	44-46	44-46	44-46	44-46	44-46	44-46
BARRIER									
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249-06	gm / m ² / day	55	45	38	27	22	18	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985-05	cc / m ² / day	139	115	92	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 does not offer any guarantee on the results and does not accept any liability arising out of the use of the information contained herein. Sumilon reserves the right to change the technical data sheet at any time without prior information.