



# Sumilon Polyester Limited

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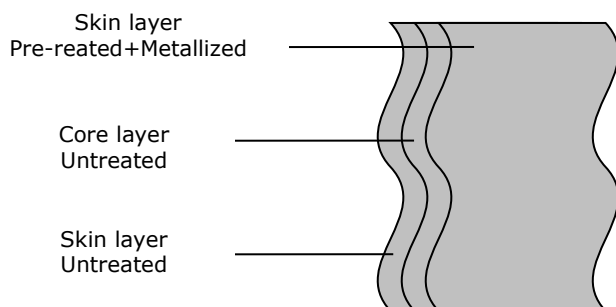
## TECHNICAL SPECIFICATION SHEET

### SUPET<sup>®</sup>

(BIAXIALLY ORIENTED POLYESTER FILMS)

### SM-251HD

SM-251HD grade is a bi-axially oriented high density metallized polyester film. Metallization done on pre-treated side and other side is un-treated. The film is suitable for the applications where high metal bond strength is required.



#### Main Features:

- ❖ High metal bond strength.
- ❖ Good lamination bond strength.
- ❖ Excellent thermal & mechanical properties
- ❖ High gloss & Good machinability

#### Applications:

- ❖ Suitable for Flexible packaging applications.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA SM-251HD			
<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>						
Optical Density	By optel make Instrument	-	2.8+2	2.8+2	2.8+2	
<b>MECHANICAL</b>						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup>	2000	2000	2000
	TD	ASTM D-882	Kg/cm <sup>2</sup>	1900	1900	1900
Elongation (Min)	MD	ASTM D-882	%	90	90	90
	TD	ASTM D-882	%	90	90	90
Coefficient of friction (Metal to films) (Max)	ST	ASTM D-1894	-	0.70	0.70	0.70
	DY	ASTM D-1894	-	0.65	0.65	0.65
<b>THERMAL</b>						
Shrinkage (MAX) (190°C / 5 min)	MD	ASTM D-1204	%	2.80	2.80	2.80
	TD	ASTM D-1204	%	0.80	0.80	0.80
<b>SURFACE</b>						
Wetting tension (Metal side)Min.	ASTM D-2578	Dyne / cm	54	54	54	
<b>BARRIER</b>						
WVTR (38 °C & 90% RH) (Max)	ASTM F-1249	gm / m <sup>2</sup> / day	0.8	0.6	0.6	
OTR (23 °C & 0% RH) (Max)	ASTM D-3985	cc / m <sup>2</sup> / day	1.10	1.00	1.00	

**Note: Thickness & OD other than mentioned above can be given on customer requirements. Metal Bond strength (SPTM) is 350gm/25mm.**

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.