



Sumilon Polyester Limited

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TECHNICAL SPECIFICATION SHEET

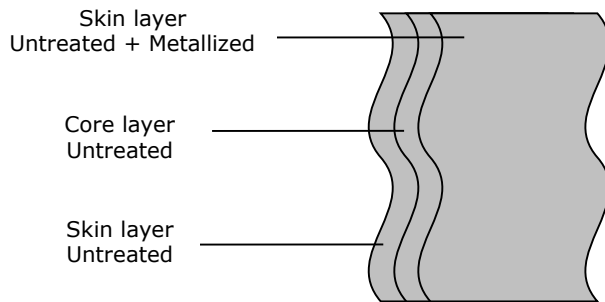
SM-700

SUPET[®]

(BIAXIALLY ORIENTED POLYESTER FILMS)

Copper Metallized Film – Ultra Pure Copper Metallized on One Side and Other Side Plain

SM-700 grade is a bi-axially oriented polyester film with one side plain and other side medium density copper metallization by thermally evaporation method in inductively heated isostatic graphite crucibles. Copper metallized films are widely used in electronic medium applications as copper has low resistance and high melting point.



Main Features:

- ❖ Good metal bond strength.
- ❖ Good lamination bond strength.
- ❖ Low Resistance makes it best suitable for high performance IC & PCBs applications.
- ❖ High melting point than Aluminium leads to grater EM-Resistance.

Applications:

- ❖ Electronic applications.

PROPERTIES	TEST METHOD	UNIT	TECHNICAL DATA SM-700						
PHYSICAL									
Thickness	ASTM D-374	Micron	10	12	15	23	36	50	
Yield	STM	m ² /kg	71.4	59.5	47.6	31	19.8	14	
OPTICAL									
Optical Density*	Optel make Instrument	OD	2.2 ± 10 %						
MECHANICAL									
Tensile strength (Min)	MD	ASTM D-882	Kg/cm ²	2000	2000	2000	2000	1900	1900
	TD	ASTM D-882	Kg/cm ²	1900	1900	1900	1900	1800	1800
Elongation (Min)	MD	ASTM D-882	%	90	90	90	90	100	100
	TD	ASTM D-882	%	90	90	90	90	90	90
THERMAL									
Shrinkage (MAX) (150°C / 30 min)	MD	ASTM D-1204	%	2.80	2.80	2.80	2.80	2.80	2.80
	TD	ASTM D-1204	%	0.80	0.80	0.80	0.80	0.80	0.80

$$OD = \frac{\log 100}{\text{Actual Transmission}} \quad (\text{Possible Range : 1.0 to 2.2 OD } \pm 10\% \text{ along width \& length})$$

Note : Thickness & OD 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.