Copolymer Coated Metallized Polyester Film

(Metallized on chemical coated side other side uncoated)

SUPET SM-251

Product Description

SM-251 grade is a Bi axially oriented metalized polyester film. The film is metalized on chemical coated side & other side is untreated . The film is suitable for application where high metal bond strength is required. The film possess good mechanical & thermal properties.

Product features

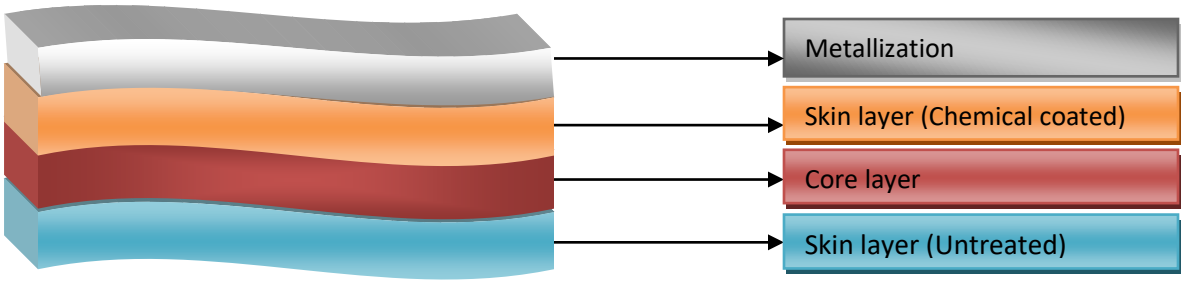
- High metal bond strength
- Good lamination bond strength
- Excellent thermal & mechanical properties

Product Applications

- Suitable for flexible packaging application
  Printing, Coating, Lamination.
- Not suitable for sterilization, Pasteurization& Hot filled application

Food Contact

This film complies with US FDA, EC directive & REACH regulation for food packaging.



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ISO 9001:2015
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Technical Specification

Properties		Unit	Test Method	Typical Values							
General Properties											
Thickness		Micron Gauge	SITM	**8 32**	**10 40**	**12 48**	**15 60**	**19 76**	**23 92**	**36 144**	**50 200**
Yield		m^2/kg	SITM	89	71	59	48	38	31	20	14
Grammage		gm/m^2	SITM	11.2	14.0	16.8	21.0	26.6	32.2	50.4	70.0
Density		gm/cm^3	SITM	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Mechanical Properties											
Tensile Strength (Min)	MD	Kg/cm^2 Kpsi	ASTM D 882	2100 30	2100 30	2100 30	2100 30	2100 30	2100 30	1900 27	1900 27
	TD			2000 28	2000 28	2000 28	2000 28	2000 28	2000 28	1900 27	1900 27
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	90	90	110	110	110
	TD			90	90	90	90	90	100	100	100
Surface Properties											
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	Dy.			0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Wetting Tension on metal side (Min)		Dynes/cm	ASTM D 2578	56	56	56	56	56	56	56	56
Thermal Properties											
Heat Shrinkage @150^{0}C/30min. (Max)	MD	%	ASTM D 1204	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Barrier Properties of 2.2 Optical Density											
WVTR (38°C& 90%RH)		gm/m2/day	ASTM F 1249	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
OTR (23°C & 0 %RH)		cc/m2/day	ASTM D3985	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barrier Properties of 2.5 Optical Density											
WVTR (38°C& 90%RH)		gm/m2/day	ASTM F 1249	<1.0	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
OTR (23°C & 0 %RH)		cc/m2/day	ASTM D3985	<1.0	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Barrier Properties of 2.8 Optical Density											
WVTR (38°C& 90%RH)		gm/m2/day	ASTM F 1249	<0.9	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
OTR (23°C & 0 %RH)		cc/m2/day	ASTM D3985	<0.9	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Metal Bond Strength											
Metal Bond Strength		gm/inch	SITM	800	800	800	800	800	800	800	800

MD: Machine direction **TD:** Transverse direction **SITM:** Saj Industries Test Method.

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Storage & Handling:

Rolls are covered by stretch wrap and which may have the chances to attract the dust particles. Use SUPET film on FIFO system and advised to rotate the film stock. The storage hall should be away from flame/ heated substances. Also rolls kept away from the bad weather conditions. The recommended temperature is below 35°C with relative humidity of 55-60%. It is recommended that the film should not get exposed to direct Sunlight and water /moisture. This film is suitable for use within six month from the date of manufacturing if store in recommended storage condition.

Disposal:

Disposal of SM-251 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once SM-251 has been laminated, coated, printed or metallized, incineration with Energy Recovery is the most environmentally efficient recovery route. It can also be burned in an incinerator with normal refuse. The disposal method should comply with appropriate local and country.

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. Saj Industries Pvt. Ltd. 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.

TDS issued on 05.04.2023. All previous version of this grade are invalid.

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