Matte Finish Metallized Polyester Film

(Metalized on untreated side)

SUPET SM-111

Product Description

SM-111 grade a Bi axially Oriented Matte Finish metallized polyester film providing a **dull silver look.** The film is metallized on untreated side. The film possess good mechanical, surface & thermal properties.

Product features

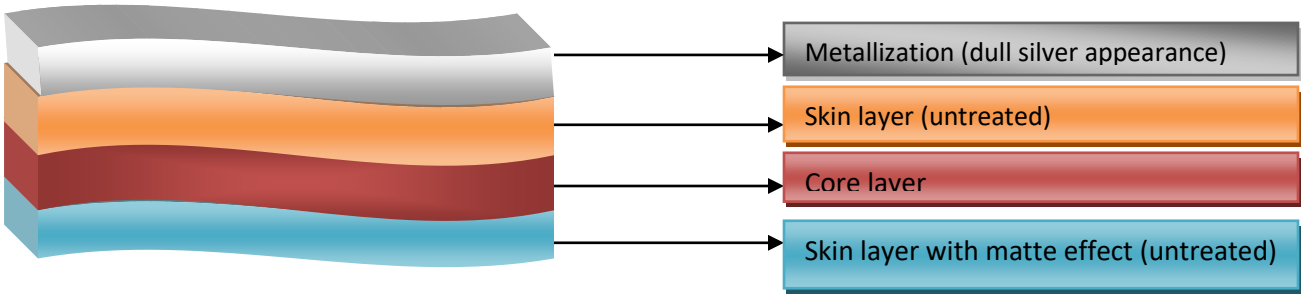
- **Dull** silver aesthetic appearance
- Good Metal bond strength
- Excellent process ability

Product Applications

- Flexible packaging i. e printing ,coating , lamination
- Thermal & board lamination
- Decorative application
- Labels and other industrial application

Food Contact

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



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ISO 9001:2015 BUREAU VERITAS Certification

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Technical Specification

Properties		Unit	Test Method	Typical Values	
General Properties					
Thickness		Micron Gauge	SITM	**12** **48**	**50** **200**
Yield		m^2/kg	SITM	59	14
Grammage		gm/m^2	SITM	16.8	70.0
Density		gm/cm^3	SITM	1.4	1.4
Mechanical Properties					
Tensile Strength (Min)	MD	Kg/cm^2 Kpsi	ASTM D 882	2000 28	1800 26
	TD			1900 27	1800 26
Elongation at Break (Min)	MD	%	ASTM D 882	90	110
	TD			90	100
Surface Properties					
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.65	0.65
	Dy.			0.60	0.60
Wetting Tension on metal side (Min)		Dynes/cm	ASTM D 2578	56	56
Thermal Properties					
Heat Shrinkage @150°C/30min. (Max)	MD	%	ASTM D 1204	2.4	2.4
	TD			0.4	0.4
WVTR(38°C& 90%RH)		$gm/m^2/day$	ASTM F 1249	<1.0	<1.0
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<1.0	<1.0
Barrier Properties of 2.5 Optical Density					
WVTR(38°C& 90%RH)		$gm/m^2/day$	ASTM F 1249	<0.7	<0.7
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<0.9	<0.9
Barrier Properties of 2.8 Optical Density					
WVTR(38°C& 90%RH)		$gm/m^2/day$	ASTM F 1249	<0.6	<0.6
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<0.8	<0.8
Metal Bond Strength					
Metal Bond Strength		Gm/inch	SITM	150	150

MD: Machine direction **TD:** Transverse direction **SITM:** Saj Industries Polyester 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.SM-111 suitable for use within six month from the date of manufacturing if store in recommended storage condition.

Disposal:

Disposal of SM-111does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once SM-111has 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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