Ultra High Clear Plasma Metallized Polyester Film

(Plasma metalized on un-treated side other side untreated or coated)

SUPET SM-105(P)

Product Description

SM-105(P) grade is a Bi axially oriented metallized polyester film. The film is Plasma metallized on untreated side other side plain. The non metalized side is also available with acrylic coating to provide better adhesion to various types of ink and coating .This film is designed for excellent gloss, clarity & good slip properties

Product features

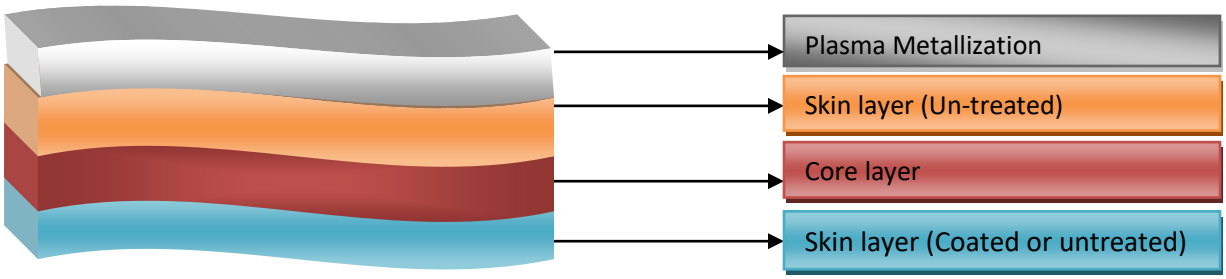
- Good Lamination strength
- Excellent printability with acrylic coated side
- Excellent process ability

Product Applications

- Flexible packaging, Lamination
- Glitter, Photosensitive coating
- Window film

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**	**19** **76**	**23** **92**	**36** **144**
Yield		m^2/kg	SITM	59	38	31	20
Grammage		gm/m^2	SITM	16.8	26.6	32.2	50.4
Density		gm/cm^3	SITM	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	1900 27
	TD			2000 28	2000 28	2000 28	1900 27
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	110	110
	TD			90	90	100	100
Surface Properties							
Coefficient of Friction (Max)	St	-	ASTM D 1894	0.65	0.65	0.65	0.65
	Dy			0.60	0.60	0.60	0.60
Wetting Tension on metal side (Min)		Dynes/cm	ASTM D 2578	56	56	56	56
Thermal Properties							
Heat Shrinkage @150°C/30min. (Max)	MD	%	ASTM D 1204	2.4	2.4	2.4	2.4
	TD			0.4	0.4	0.4	0.4
Barrier Properties of 2.2 Optical Density							
WVTR (38°C& 90%RH)		$gm/m^2/day$	ASTM F 1249	<1.0	<1.0	<1.0	<1.0
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<1.0	<1.0	<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	<0.7	<0.7
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<0.9	<0.9	<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	<0.6	<0.6
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<0.8	<0.8	<0.8	<0.8
Metal Bond Strength							
Metal Bond Strength		Gm/inch	SITM	150	150	150	150

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 range 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-106(P) does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once SM-106(P) 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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