Dead Fold Retainable Grade Metallized Polyester Film

(Metalized on un treated side)

SUPET SM-550

Product Description

SM-550 grade is a Bi axially oriented metalized dead fold retainable polyester film. The film is metallized on untreated side. This film is specially designed for high dead fold retention. This film is suitable for twist wrap packaging for confectionary.

Product features

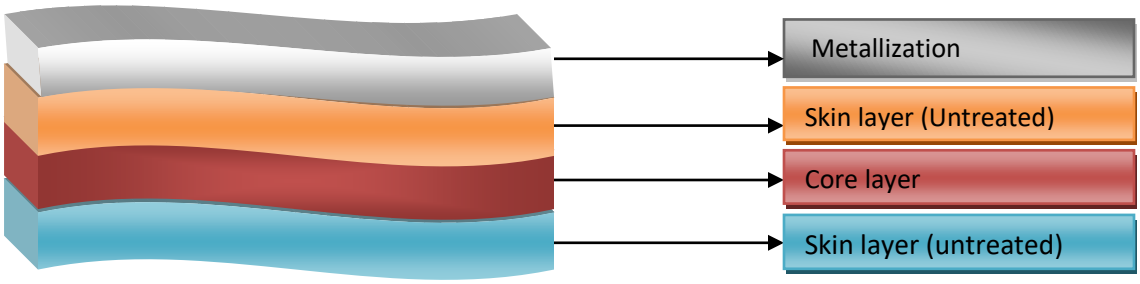
- Good Metal bond strength
- Good Lamination bond strength
- Excellent fold retention properties
- Excellent thermal and mechanical properties

Product Applications

- Candies ,toffees wrapping (hot & cold)
- Printing ,metalizing & lamination

Food Contact

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



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Technical Specification

Properties		Unit	Test Method	Typical Values			
General Properties							
Thickness		Micron Gauge	SITM	**12** **48**	**15** **60**	**18** **72**	**23** **92**
Yield		m^2/kg	SITM	59	48	40	31
Grammage		gm/m^2	SITM	16.8	21.0	25.2	32.2
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	2200 31	2200 31	2200 31	2100 30
	TD			2200 31	2200 31	2200 31	2100 30
Elongation at Break (Min)	MD	%	ASTM D 882	100	100	90	90
	TD			80	80	80	80
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	26	26	26	26
	TD			30	30	30	30
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 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-550 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once SM-550 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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