Corona Treated Plasma Metallized Polyester Film

(Plasma metalized on corona treated side other side plain)

SUPET SM-102(P)

Product Description

SM-102(P) grade a Bi axially Oriented metallized polyester film. The film is Plasma metallized on corona treated side other side plain. The film possess good mechanical, surface & thermal properties.

Product features

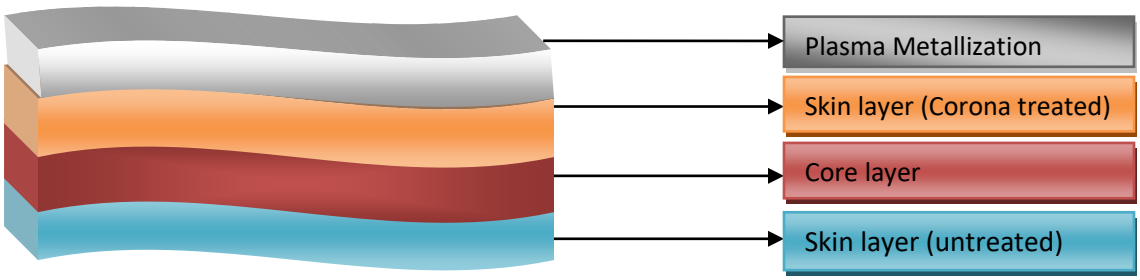
- Good Lamination strength
- Enhanced Metal bond strength
- Excellent process ability

Product Applications

- Flexible packaging i e printing ,coating , lamination
- Decorative application

Food Contact

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



Head Office : 6/121 A-1, Paiki, Plot no.8, First floor,Vairagini wadi,Delhi gate Surat-395003,Gujarat , INDIA
TEL. NO: +91-261– 2441122 / 6797979, FAX NO: +91-261-2442952 , **web: www.sumilon.com**

WORKS: 43/P NH-8A, Village Varsana, Talq. Anjar, Gandhidham-370201, Gujarat (India). Phone No.: +91-2836-324900

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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**	**75 300**
Yield		m^2/kg	SITM	89	71	59	48	38	31	20	14	9.5
Grammage		gm/m^2	SITM	11.2	14.0	16.8	21.0	26.6	32.2	50.4	70.0	105
Density		gm/cm^3	SITM	1.4	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	1800 26
	TD			2000 28	2000 28	2000 28	2000 28	2000 28	2000 28	1900 27	1900 27	1800 26
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	90	90	110	110	110	120
	TD			90	90	90	90	90	100	100	100	110
Surface Properties												
Coeff of Friction (Max) A/B	St.	-	ASTM D 1894	0.65	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	0.60
Wetting Tension on metal side (Min)		Dynes/cm	ASTM D 2578	56	56	56	56	56	56	56	56	56
Thermal Properties												
Heat Shrinkage @150°C/30min. (Max)	MD	%	ASTM D 1204	2.4	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	0.4
Barrier Properties of 2.2 Optical Density												
WVTR(38°C& 90%RH)		$gm/m^2/day$	ASTM F 1249	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<1.5	<1.0	<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)		$gm/m^2/day$	ASTM F 1249	<1.0	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<1.0	<0.9	<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)		$gm/m^2/day$	ASTM F 1249	<0.9	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
OTR (23°C & 0 %RH)		$cc/m^2/day$	ASTM D3985	<0.9	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Metal Bond Strength												
Metal Bond Strength		Gm/inch	SITM	250	250	250	250	250	250	250	250	250

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-102(P) does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once SM-102(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. 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.

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

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