Copolymer Coated Polyester Film

(One side chemical coated & other side untreated film)

SUPET S-251

Product Description

S-251grade is a Bi axially Oriented Transparent polyester film with one side chemically coated & other side Untreated. The film possess good Mechanical, Surface & Thermal properties suitable for flexible packaging Application.

Product features

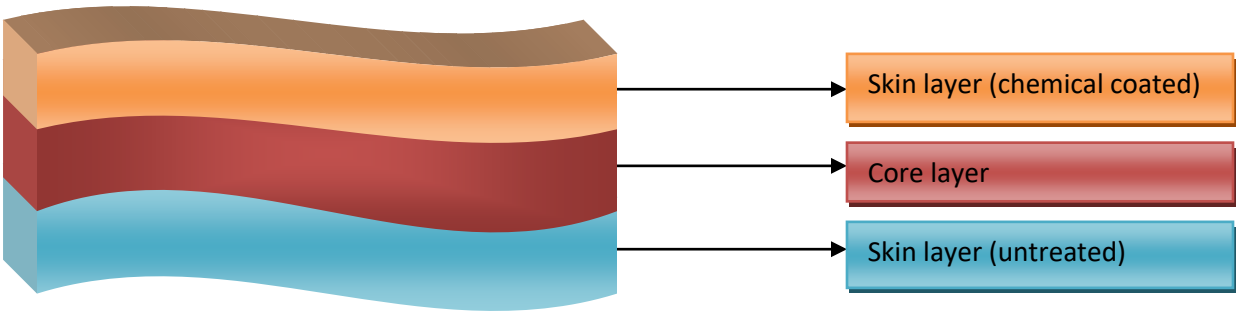
- Excellent surface for printing & lamination
- Dimensional stability
- Ensure excellent process ability

Product Applications

- Flexible packaging application
- Metallizing (good metal bond strength)
- Not suitable for Hot filled, sterilization, Pasteurization

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

ISO 9001:2015 BUREAU VERITAS Certification

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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	105.0
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												
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.45
	Dy.			0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.40
Wetting Tension on coated side		Dynes/cm	ASTM D 2578	54+	54+	54+	54+	54+	54+	54+	54+	54+
Optical Properties												
Haze (Max)		%	ASTM D 1003	3.0	3.0	3.5	3.5	3.5	4.0	4.5	5.0	7.0
Transmittance(Min)		%	ASTM D 1003	88	88	88	88	88	88	88	88	88
Thermal Properties												
Heat Shrinkage @150°C/30minute (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												
WVTR(38°C& 90%RH)		$gm/m^2/d$ $gm/100in^2/d$	ASTM F 1249	<65 <4.2	<45 <2.9	<40 <2.6	<35 <2.3	<30 <1.9	<25 <1.6	<22 <1.4	<18 <1.2	<15 <1.0
OTR (23°C & 0 %RH)		$cc/m^2/day$ $cc/100in^2/d$	ASTM D3985	<145 <9.4	<135 <8.7	<135 <8.7	<120 <7.7	<95 <6.1	<75 <4.8	<55 <3.5	<45 <2.9	<35 <2.3

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

The inherent surface tension on untreated side is min 42 dynes/cm.

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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 one year from the date of manufacturing if store in recommended storage condition, afterward Sumilon will not accept any responsibility.

Disposal

Disposal of S-251 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-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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