Optically High Clarity Polyester Film

(Both side untreated film)

SUPET S-103

Product Description

S-103 grade is a Bi axially Oriented High Clarity Polyester film with both side no surface treatment. This film is Characterized by high transparency.

Product features

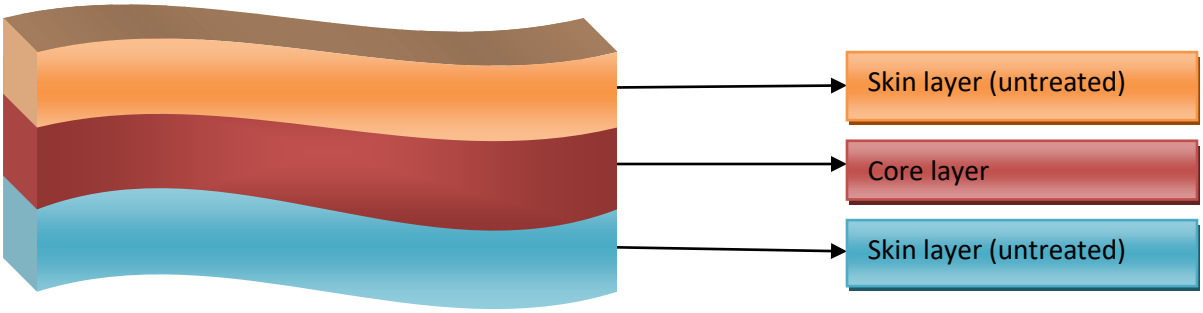
- High surface gloss
- Excellent clarity and transparency
- Excellent thermal, dimensional & mechanical properties
- Excellent processability

Product Applications

- Suitable for holographic, metallization, lamination
- Labels, Photosensitive coatings

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	**10 40**	**11 44**	**12 48**	**15 60**	**19 76**	**23 92**	**36 144**	**50 200**
Yield		m^2/kg	SITM	71	65	59	48	38	31	20	14
Grammage		gm/m^2	SITM	14.0	15.4	16.8	21.0	26.6	32.2	50.4	70.0
Density		gm/cm^3	SITM	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
	TD			2000 28	2000 28	2000 28	2000 28	2000 28	2000 28	1900 27	1900 27
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	90	90	110	110	110
	TD			90	90	90	90	90	100	100	100
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
	Dy.			0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Wetting Tension on untreated side		Dynes/cm	ASTM D 2578	42	42	42	42	42	42	42	42
Optical Properties											
Haze (Max)		%	ASTM D 1003	1.2	1.5	1.5	1.5	1.5	1.5	1.8	1.8
Transmittance(Min)		%	ASTM D 1003	90	90	90	90	90	90	90	90
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
	TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Barrier Properties											
WVTR (38°C& 90%RH)		$gm/m^2/day$ $gm/100in^2/d$	ASTM F 1249	<45 <2.9	<45 <2.9	<40 <2.6	<35 <2.3	<30 <1.9	<25 <1.6	<22 <1.4	<18 <1.2
OTR (23°C & 0 %RH)		$cc/m^2/day$ $cc/100in^2/d$	ASTM D3985	<135 <8.7	<135 <8.7	<135 <8.7	<120 <7.7	<100 <6.4	<75 <4.8	<55 <3.5	<45 <2.9

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

Disposal

Disposal of S-103 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-103 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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