Copolymer coated Isotropic Polyester Film

(One side chemical coated other side corona treated film)

SUPET S-405

Product Description

S-405 grade is Bi axially Oriented Transparent Polyester film with one side chemical coated & other side corona treated. This film provides excellent isotropic properties. The Film **possess** good Mechanical, Surface & Thermal properties.

Product features

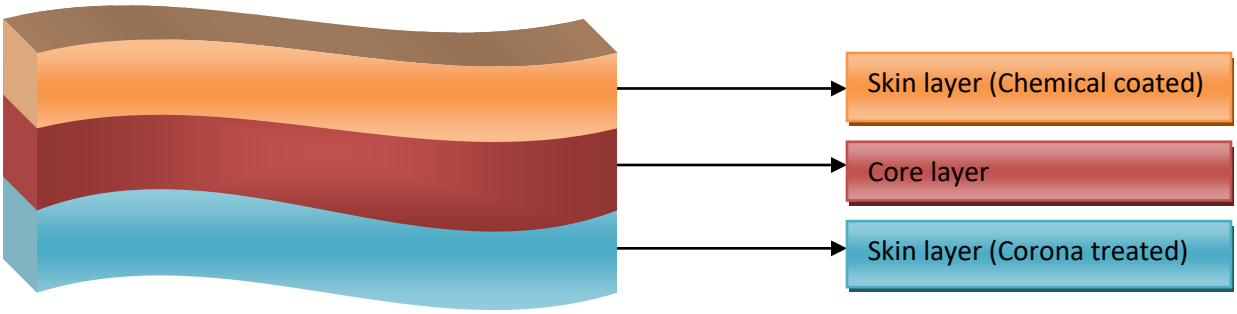
- Excellent mechanically uniform isotropic properties
- Dimensional stability
- Ensure excellent process ability

Product Applications

- This film is ideal for lidding application for cups ,tubes & trays
  e.g. Yogurt, Ice cream, Dairy products, Mineral water, Instant noodles
- Hot filled application e.g. Tomato ketchup, Juices
- Frozen food packaging, Cosmetics & Personal care product
- Retort packaging (selection of specific ink and adhesive is designed for retort application)
  (Lab test parameter 121°C/30minute)

Food Contact

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



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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	**12** **48**	**23** **92**	**36** **144**
Yield		m^2/kg	SITM	59	31	20
Grammage		gm/m^2	SITM	16.8	32.2	50.4
Density		gm/cm^3	SITM	1.4	1.4	1.4
Mechanical Properties						
Tensile Strength (Min)	MD	Kg/cm^2 Kpsi	ASTM D 882	2100 30	2100 30	1900 27
	TD			2000 28	2000 28	1900 27
Elongation at Break (Min)	MD	%	ASTM D 882	90	110	110
	TD			90	100	100
Surface Properties						
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.50	0.50	0.50
	Dy.			0.45	0.45	0.45
Wetting Tension	Coated side	Dynes/cm	ASTM D 2578	46+	46+	46+
	Treated side			52+	52+	52+
Isotropic Properties						
TS @ +45°/-45°		Ratio	SITM	0.6-1.4		
Elongation@ +45°/-45°		Ratio		0.6-1.8		
Optical Properties						
Haze (Max)		%	ASTM D 1003	3.5	4.0	4.5
Transmittance(Min)		%	ASTM D 1003	88	88	88
Thermal Properties						
Heat Shrinkage @150°C/30minute (Max)	MD	%	ASTM D 1204	2.4	2.4	2.4
	TD			0.4	0.4	0.4
Barrier Properties						
WVTR(38°C& 90%RH)		$gm/m^2/d$ $gm/100in^2/d$	ASTM F 1249	<40 <2.6	<25 <1.6	<22 <1.4
OTR (23°C & 0 %RH)		$cc/m^2/day$ $cc/100in^2/d$	ASTM D3985	<135 <8.7	<75 <4.8	<55 <3.5

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-405 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-405 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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