Copolymer coated Yarn Grade Polyester Film

(One side chemical coated other side untreated film)

SUPET S-153

Product Description

S-153 grade is Bi axially Oriented Transparent Yarn Grade Polyester film with one side chemical coated & other side untreated. This film exhibit excellent tensile strength and shrinkage for yarn grade application.

Product features

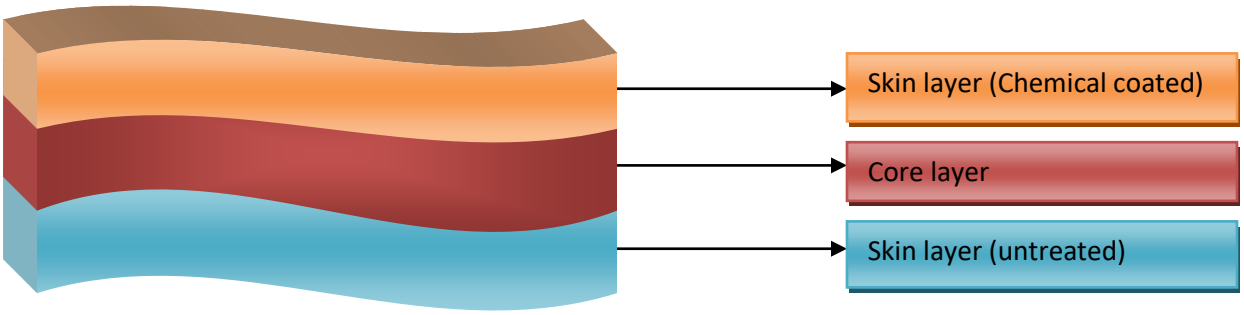
- Excellent mechanical properties
- Excellent dimensional stability at elevated temperature
- High clarity and transparency
- Ensure excellent process ability
- Excellent adhesion to metal & various inks on chemical coated side
- Excellent lamination bond strength with chemical coated side

Product Applications

- Plain and metallic yarn 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

ISO 9001:2015 BUREAU VERITAS Certification

Copolymer coated Yarn Grade Polyester Film

(One side chemical coated other side untreated film)

SUPET S-153

Technical Specification

Properties		Unit	Test Method	Typical Values							
General Properties											
Thickness		Micron Gauge	SITM	**8 32**	**10 40**	**11 44**	**12 48**	**15 60**	**19 76**	**23 92**	**30 120**
Yield		m^2/kg	SITM	89	71	65	59	48	38	31	24
Grammage		gm/m2	SITM	11.2	14.0	15.4	16.8	21.0	26.6	32.2	42.0
Density		gm/cm3	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	2200 31	2200 31	2200 31	2200 31	2200 31	2200 31	2200 31	2100 30
	TD			2000 28	2000 28	2000 28	2000 28	2000 28	2000 28	2000 28	1900 27
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	90	90	90	100	100
	TD			90	90	90	90	90	90	90	90
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 coated side		Dynes/cm	ASTM D 2578	54+	54+	54+	54+	54+	54+	54+	54+
Optical Properties											
Haze (Max)		%	ASTM D 1003	3.0	3.0	3.0	3.5	3.5	3.5	4.0	4.0
Transmittance(Min)		%	ASTM D 1003	88	88	88	88	88	88	88	88
Thermal Properties											
Heat Shrinkage @190°C/20minute (Max)	MD	%	ASTM D 1204	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	TD			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Barrier Properties											
WVTR (38°C& 90%RH)		$gm/m^2/d$ $gm/100in^2/d$	ASTM F1249	<65 <4.2	<45 <2.9	<45 <2.9	<40 <2.6	<35 <2.3	<30 <1.9	<25 <1.6	<25 <1.6
OTR (23°C & 0 %RH)		$cc/m^2/day$ $cc/100in^2/d$	ASTM D3985	<145 <9.4	<135 <8.7	<135 <8.7	<135 <8.7	<120 <7.7	<95 <6.1	<75 <4.8	<75 <4.8

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

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

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-153 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-153 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.

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