



# Stamping Foil Grade Polyester Film

(One side corona treated other side untreated film)

**SUPET S-451**

## Product Description

**S-451 grade** is Bi axially Oriented Transparent Hot Stamping Grade Polyester film with one side corona treated other side untreated. The film possess good Mechanical, Surface, Thermal & dimensional properties suitable for transfer application.

## Product features

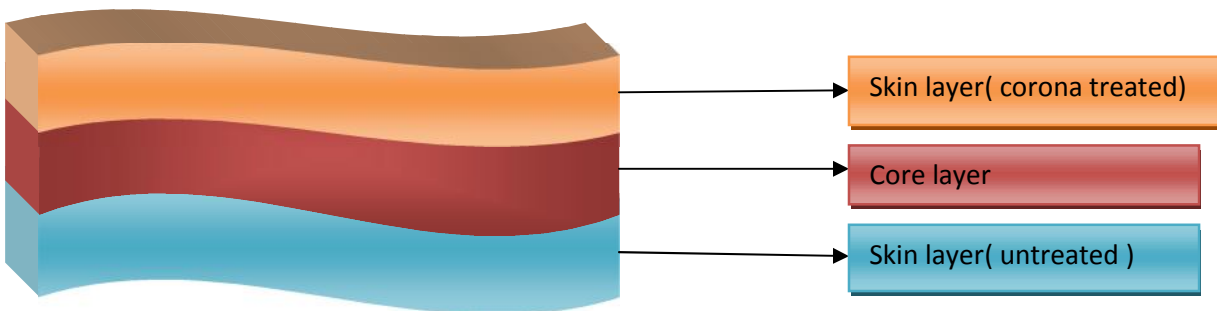
- ❖ High transparency
- ❖ Excellent dimensional stability
- ❖ Excellent mechanical properties

## Product Applications

- ❖ Stamping foil, High temperature coating
- ❖ Suitable for transfer foil to displace the design on paper, textile, plastic

## Food Contact

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





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### Technical Specification

Properties	Unit	Test Method	Typical Values					
<b>General Properties</b>								
Thickness	Micron	SPTM	10	12	15	19	23	
Yield	m <sup>2</sup> /kg	SPTM	71	59	48	38	31	
<b>Mechanical Properties</b>								
Tensile Strength (Min)	MD	Kg/cm <sup>2</sup>	ASTM D 882	2100	2100	2200	2200	2200
	TD			2000	2000	2000	2000	2000
Elongation at Break (Min)	MD	%	ASTM D 882	90	90	90	90	100
	TD			90	90	90	90	90
<b>Surface Properties</b>								
Coefficient of Friction (Max)	St.	-	ASTM D 1894	0.50	0.50	0.50	0.50	0.50
	Dy.			0.45	0.45	0.45	0.45	0.45
Wetting Tension on treated side		Dynes/cm	ASTM D 2578	52+	52+	52	52	44
<b>Optical Properties</b>								
Haze (Max)		%	ASTM D 1003	3.0	3.5	3.5	3.5	4.0
Transmittance(Min)		%	ASTM D 1003	88	88	88	88	88
<b>Thermal Properties</b>								
Heat Shrinkage @190°C/20minute (Max)	MD	%	ASTM D 1204	4.4	4.4	4.4	4.4	4.4
	TD			-0.4	-0.4	-0.4	-0.4	-0.4
<b>Barrier Properties</b>								
WVTR(38°C& 90%RH)		gm/m <sup>2</sup> /day	ASTM F 1249	<45	<40	<35	<30	<25
OTR (23°C & 0 %RH)		cc/m <sup>2</sup> /day	ASTM D3985	<135	<135	<120	<95	<75

MD : Machine direction TD : Transverse direction SPTM : Sumilon Polyester Test Method

#### 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 range is 24°C to 35°C with relative humidity of 55-60%. It is recommended that the film should not get exposed to direct Sunlight and water /moisture.

#### Disposal

Disposal of S-451 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form, it can be recycled. In most circumstances, once S-451 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 15/08/2019. All previous version of this grade are invalid.**

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