



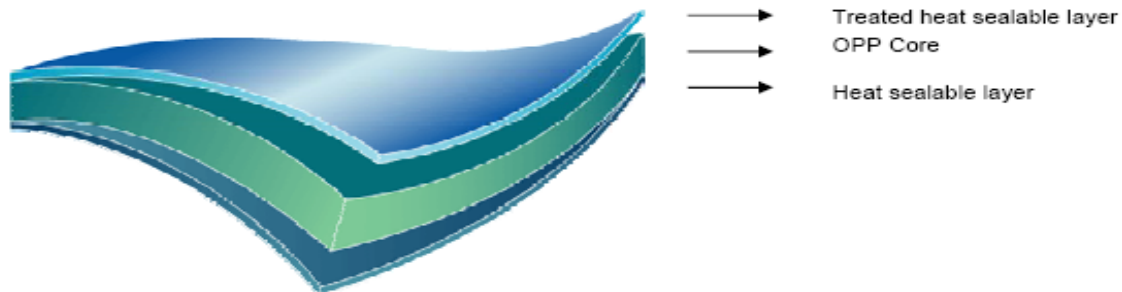
8708 W. Little York Road – Suite170 Houston TX 77040 USA  
 281-416-4449 Office or contact us info@impexglobalfilms.com

## TECHNICAL DATA SHEET

### BIORIENTED POLYPROPYLENE FILM TWO –SIDE HEAT SEALABLE ONE- SIDE TREATED

## TSS

Clear co-extruded BOPP film, both sides heat sealable (SIT 105°), one-side treated



### PROPERTIES

- ◆ Excellent optical properties
- ◆ Consistent C.o.F.
- ◆ High seal strength
- ◆ Good hot tack (allows high speed packaging)

### TYPICAL APPLICATIONS

- ◆ Rotogravure and flexographic printing
- ◆ Can be used on a wide range of packaging machines
- ◆ Thinner gauges used in lamination
- ◆ Thicker gauges used as single web

### FOOD CONTACT

TSS fully meets the overall migration requirements of EC Directive 2002/72/EC and USA FDA CFR21 sect.177.1520, and is therefore suitable for direct food contact.

### ROLL SIZE AVAILABILITY

Availability	Standard Length (m)	4x (m)	6x (m)	8x (m)
TSS 15	4,250	17,000	25,500	34,000
TSS 18	3,550	14,200	21,300	28,400
TSS 20	3,200	12,800	19,200	25,600
TSS 25	2,550	10,200	15,300	20,400
TSS 30	2,100	8,400	12,600	16,800
TSS 35	1,800	7,200	10,800	14,400
TSS 40	1,600	6,400	9,600	12,800
TSS 50	1,300	5,200	7,800	10,400
Outside diameter - core 76 mm	305 mm	588 mm	716 mm	825 mm
Outside diameter - core 152 mm	337 mm	605 mm	730 mm	838 mm

## TSS

Properties	Unit	Measuring method	TSS 15	TSS 18	TSS 20	TSS 25	TSS 30	TSS 35	TSS 40	TSS 50
Nominal thickness	µm		15	18	20	25	30	35	40	50
Weight per unit of area	g / m <sup>2</sup>	ISO 4691	13.7	16.4	18.2	22.8	27.3	31.9	36.4	45.5
Density	g / cm <sup>3</sup>		0.91							
Yield	m <sup>2</sup> / kg		73.3	61.0	55.0	44.0	36.6	31.4	27.5	22.0
Seal Strength	N/25.4 mm	130°C / 0.5 s / 1 bar	3.3	4.0	4.0	4.5	5.3	6.3	7.3	7.3
Sealing Range	°C		105 - 140							
Coefficient of Friction (dynamic) film to film (treated/untreated)	film to film	ISO 8295	< 0.3	< 0.3	< 0.3	< 0.3	< 0.4	< 0.4	< 0.4	< 0.4
Wettability (min Treatment level)	mN/m	ISO 8295	>38							
Haze	%	ASTM D 1003	2.0	2.5	2.8	2.8	2.8	2.8	2.8	2.8
Tensile Strength	MD						150			
	TD	N / mm <sup>2</sup>	DIN EN ISO 627-1/-3				250			
Elongation at Break	MD	%	DIN EN ISO 627-1/-3				200			
	TD						60			
Shrinkage	MD	%	ASTM D 1204				4.0			
	TD		120°C / 5min				2.0			
WVTR 38°C 90% r, h,	g/m <sup>2</sup> d	ASTM 1249	7.0	6.5	6.0	5.0	4.0	3.5	3.0	2.5

### PRE-TREATMENT INDICATION

Standard TSS will be supplied with treatment outside. However, TSS can be manufactured as:

- non-corona-treated (N)
- 1-side treated (T)
- 2-sides treated (B)

The treatment is indicated by the additional letters in the grade nomenclature N, T or B.

### STORAGE, HANDLING AND APPLICATION RECCOMENDATIONS

TSS will maintain consistent performance over a period of 6 months from date of production and should be converted during that time.

Products should be stored below 40°C, in dry and sun protected environment.

## NOTE:



The above-mentioned data have been obtained using standard test procedures on defined specimens, and are provided in good faith.

These results should therefore be regarded only as a general guide to material properties. It is for the customer to determine / decide a product's suitability for his / her own particular purpose. **IMPEX GLOBAL FILMS** does not claim and responsibility of the product for any particular purpose.