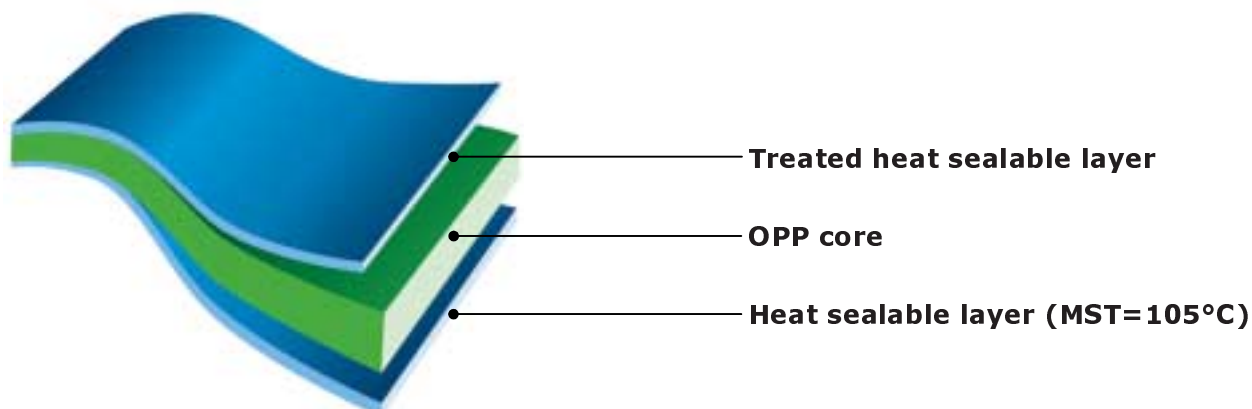




TSS

BoPP transparent film, both sides heat sealable, treated



PROPERTIES

- Heat sealable on both sides
- Good mechanical properties
- Good moisture barrier
- Good antistatic and slip properties

TYPICAL APPLICATIONS

- Rotogravure and flexographic printing
- Lamination
- Single web structure
- Hffs and vffs packaging
- General wrapping

ROLL SIZE AVAILABILITY*

Film	Standard Length (m)	4x ** (m)	7x (m)
TSS 15	4,250	17,000	29,750
TSS 18	3,550	14,200	24,850
TSS 20	3,200	12,800	22,400
TSS 25	2,550	10,200	17,850
TSS 30	2,100	8,400	14,700
TSS 35	1,800	7,200	12,600
TSS 40	1,600	6,400	11,200
TSS 48	1,350	5,400	9,450
Outside diameter - core 76 mm	305 mm	588 mm	
Outside diameter - core 152 mm	337 mm	605 mm	783 mm

*Regional availability of roll sizes (multiples of standard length)-please refer to the corresponding Sales Representative

**Length rolls on 152 mm cores will be produced with reduced length in Europe to maintain roll diameters below 600 mm

Properties	Method	Unit	Ref.	Typical values							
Nominal thickness	Internal method	µm		15	18	20	25	30	35	40	48
Unit weight		g/m ²		13.7	16.4	18.2	22.8	27.3	31.9	36.4	43.7
Yield		m ² /kg		73.3	61.0	54.9	44.0	36.6	31.4	27.5	22.9
Tensile strength	ASTM D882	N/mm ²	MD TD	140 280							
Elongation at break		%	MD TD	180 50							
Haze	ASTM D1003	%		2.0		2.3		2.6			
Gloss (45°)	ASTM D2457	Gloss Unit		85							
Dynamic cof	ASTM D1894		NT/NT	0.25							
Thermal shrinkage	OPMA TC4(a)	%	MD TD	6.0 3.0							
Heat seal range	Internal method	°C	NT/NT	105 ÷ 140							
Seal strength	Internal method 130°C ;0.5 s	g/cm		170		230		300			
Treatment level	ASTM D2578	mN/m		38							
Water vapour permeability	ASTM F1249 (38°C - 90% RH)	g/m ² /d		9.0	7.8	7.0	6.0	5.0	4.0	3.5	3.1

Tolerance		
Weight	≤ 1.000 kg	± 20%
	1.001-10.000 kg	± 10%
	> 10.000 kg	± 5%

STORAGE, HANDLING AND APPLICATION

TSS does not require special storage conditions. A storage temperature below 30°C is recommended in order to minimise the deterioration of the film properties in general. It is advisable to turn over the inventory according to the delivery date (first in-first out). The film should be conditioned in the operating environment at least for 24 hours before processing. TSS is suitable for use up to 6 months from the date of production.

INDICATION OF SURFACE TREATMENT

TSS is usually supplied with treatment on the outside surface (TO). TSS can be supplied either with treatment on the inside surface (TI) or treated on both sides (DO, DI). This must be agreed with our sales representative before processing the order.

FOOD CONTACT

TSS complies with EC and FDA regulations. Specific documents and MSDS are available on request.

The property values represented in the table do not constitute product specifications, but represent the average or typical values. Use of this information is limited to the specific recipient. While the information is accurate to the best of our knowledge as of the date compiled, it is limited to the information as specified. No representation or warranty, expressed or implied, is made regarding the information, or its completeness or fitness to a particular use. The user is solely responsible for all determinations regarding use and we disclaim liability for any loss or damage that may occur from the use of this information. Ti does not guarantee the typical (or other) values.