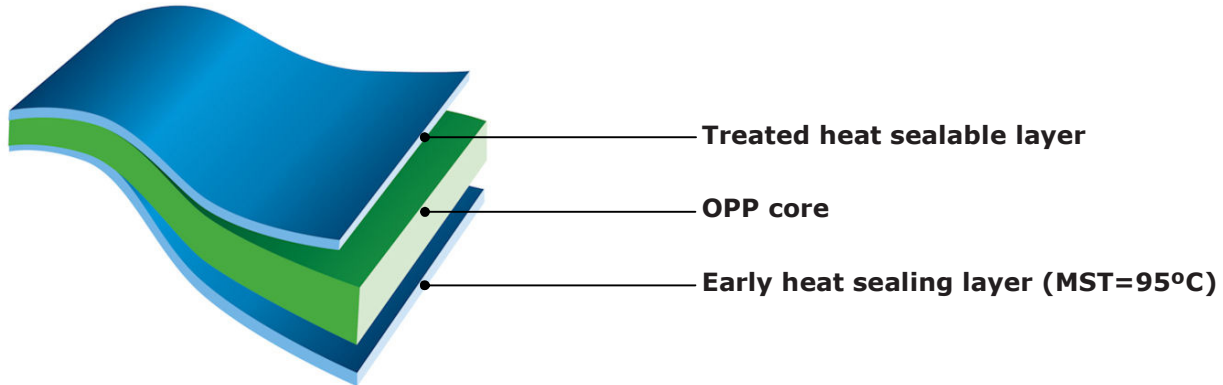




TES

BoPP transparent film, one side wide heat seal range , treated



PROPERTIES

- Non treated early heat sealing layer (MST=95°C)
- Heat sealable on both sides
- Good mechanical properties
- Good Hot-Tack
- Good moisture barrier
- Good antistatic and slip property

TYPICAL APPLICATIONS

- Higher packaging speed on HFFS packaging machine
- Rotogravure and flexographic printing
- Lamination
- Single web structure
- VFFS packaging

ROLL SIZE AVAILABILITY*

Film	Standard Length (m)	4x (m)	6x (m)	8x (m)
TES 25	2,550	10,200	15,300	20,400
Outside diameter – core 76 mm	305 mm	588 mm	716 mm	825mm
Outside diameter - core 152 mm	337 mm	605 mm	730 mm	838 mm

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

Properties	Method	Unit	Ref.	Typical values
Nominal thickness	Internal method	µm		25
Unit weight		g/m ²		22.8
Yield		m ² /kg		44.0
Tensile strength	ASTM D882	N/mm ²	MD	140
Elongation at break			TD	250
		%	MD	200
			TD	50
Haze	ASTM D1003	%		2.3
Gloss (45°)	ASTM D2457	Gloss Unit		85
Dynamic cof	ASTM D1894		NT/NT	0.25
Thermal shrinkage	OPMA TC4(a)	%	MD	6.0
			TD	3.0
Heat seal range	Internal method	°C	NT/NT	95-140
Seal strength	Internal method 130°C ;0.5 s	g/cm		200
Treatment level	ASTM D2578	mN/m		38
Water vapour permeability	ASTM F1249 (38°C - 90% RH)	g/m ² /d		6.0

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

STORAGE, HANDLING AND APPLICATION

TES film does not require special storage conditions. A storage temperature between 20°C to 30°C is recommended in order to minimise the deterioration of the film properties in general. It is advisable to turnover the inventory according to the delivery dates (first in-first out). The film should be conditioned in the operating environment for at least 24 hours before processing. TES film is suitable for use up to 6 months from the date of production.

INDICATION OF SURFACE TREATMENT

TES film is usually supplied with the treatment on the outside surface (TO).

TES film can be supplied with the treatment on the inside surface (TI) as well. This must be agreed with our sales representative before processing the order.

FOOD CONTACT

TES film complies with EC and FDA regulations. Specific document and MSDS are available upon 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.