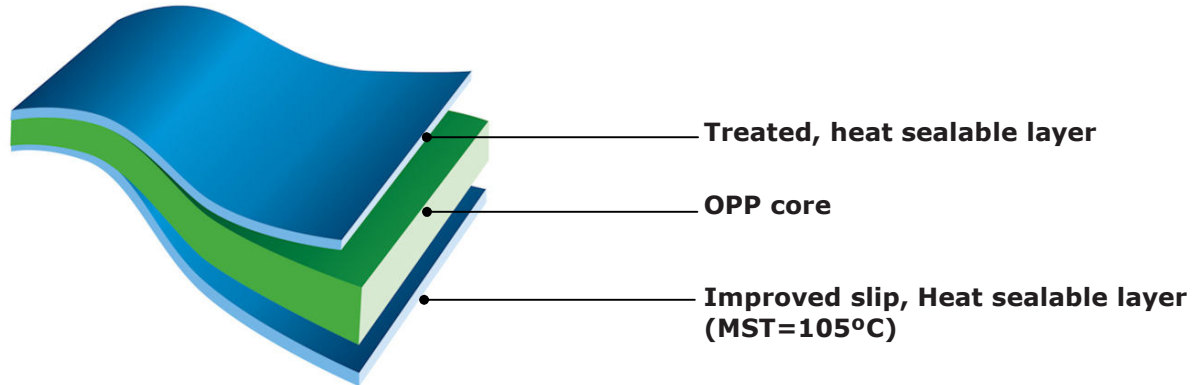




# TLF

**BoPP transparent film, both sides heat sealable, consistent and improved slip property, treated**



## PROPERTIES

- Consistent and improved slip properties
- Good hot slip
- Heat sealable on both sides
- Good mechanical properties
- Good moisture barrier

## TYPICAL APPLICATIONS

- Rotogravure and flexographic printing
- Lamination
- Single web structure
- HFFS & VFFS packaging
- General wrapping

### ROLL SIZE AVAILABILITY\*

Film	Standard Length (m)	4x (m)	6x (m)	8x (m)
TLF 15	4,250	17,000	25,500	34,000
TLF 20	3,200	12,800	19,200	25,600
TLF 25	2,550	10,200	15,300	20,400
TLF 30	2,100	8,400	12,600	16,800
TLF 35	1,800	7,200	10,800	14,400
TLF 40	1,600	6,400	9,600	12,800
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		15	20	25	30	35	40
Unit weight		g/m <sup>2</sup>		13.6	18.2	22.8	27.3	31.9	36.4
Yield		m <sup>2</sup> /kg		73.5	54.9	44.0	36.6	31.4	27.5
Tensile strength	ASTM D882	N/mm <sup>2</sup>	MD TD	140 280					
Elongation at break		%	MD TD	180 50					
Haze	ASTM D1003	%		2.4		2.7		3.0	
Gloss (45°)	ASTM D2457	Gloss Unit		85					
Dynamic cof	ASTM D1894		NT/NT	0.18					
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 <sup>2</sup> /d		8.0	7.0	6.0	5.0	4.0	3.0

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

## STORAGE, HANDLING AND APPLICATION

TLF 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. TLF film is suitable for use up to 6 months from the date of production.

## INDICATION OF SURFACE TREATMENT

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

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

## FOOD CONTACT

TLF 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.