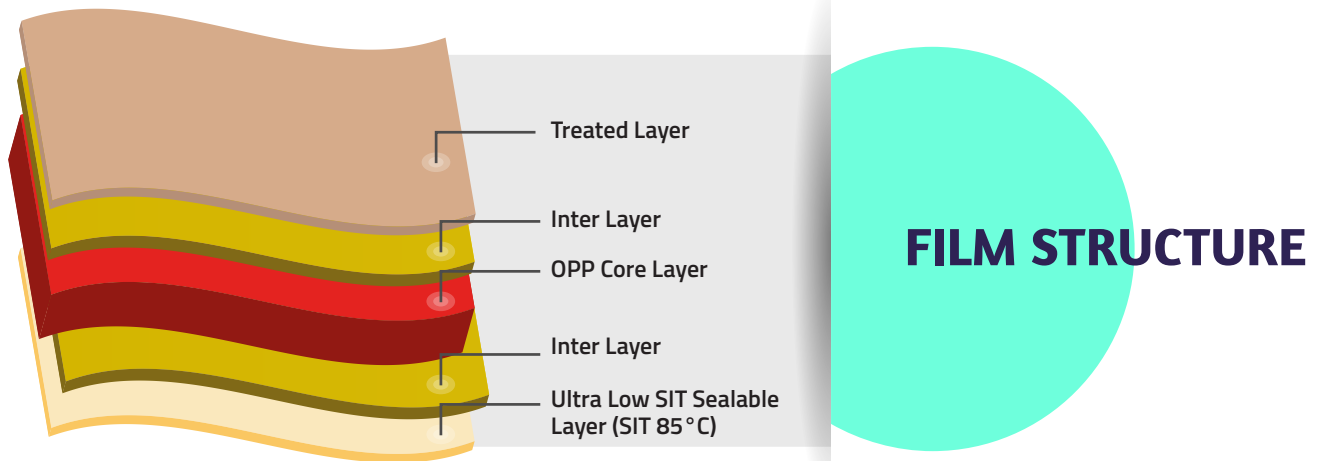


## B-TLL

### Ultra Low SIT Transparent Heat Sealable BOPP Film

B-TLL is an ultra low SIT, high & broad hot tack transparent film with other side treated.



## THE BIG DIFFERENTIATORS



### Good Bond

Improved ink adhesion & stronger lamination bond.



### Ultra Low SIT & High Hot Tack

Excellent runnability at high speed HFFS m/c with good operating efficiency (minimal wastage & downtime).



### Good Optics

High quality images.



### Good Antistatic & Slip

High performance on HFFS & VFFS m/c with minimal wastage.



### Good Machinability

Highly productive performance.

## KEY FEATURES:

- Excellent hot tack
- Consistent slip & antistatic
- High seal integrity
- Low SIT and wide seal range
- Good optics
- Good printability

## APPLICATIONS:

- Sandwich skilllets
- Biscuits, cookies & crackers
- Confectionery packaging
- Chips & snacks
- For high speed HFFS machine

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES					
THICKNESS		Internal	Micron	12	15	18	20	25	30
			(Gauge)	48	60	72	80	100	120
FILM DENSITY		D-1505	gm/cc	0.91					
GRAMMAGE		Internal	gm/m <sup>2</sup>	10.9	13.7	16.4	18.2	22.7	27.3
YIELD		Internal	m <sup>2</sup> /kg	91.7	73.1	61.1	54.9	44.0	36.6
			in <sup>2</sup> /lb	64465	51389	42953	38594	30932	25730
TREATMENT LEVEL		D-2578	dyne/cm	38					
COEFF OF FRICTION (UTR/UTR)	DYNAMIC	D-1894	-	0.22 ± 0.05					
HAZE		D-1003	%	1.6	1.6	1.8	2.0	2.4	2.6
GLOSS (at 45°)		D-2457	Unit	87	87	85	82	78	75
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm <sup>2</sup>	1200					
	TD*			2500					
	MD*		(KPsi)	17.0					
	TD*			35.5					
ELONGATION AT BREAK	MD*	D-882	%	200					
	TD*			60					
LINEAR SHRINKAGE (max) (5 Minutes at 130°C)	MD*	D-1204	%	6.0					
	TD*			3.0					
HEAT SEAL INITIATION TEMPERATURE		Internal	°C	85					
HEAT SEAL STRENGTH	(Min.)	Internal	gm/25mm	325	375	425	450	475	500
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	7.4	7.0	6.8	6.5	6.0	5.7
			(gm/100 in <sup>2</sup> /day)	0.48	0.45	0.44	0.42	0.39	0.37
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	2300	2000	1800	1800	1700	1600
			(cc/100 in <sup>2</sup> /day)	148	129	116	116	110	103

Ref no QAD UFLI 5/17 – B 49/2

\*MD = MACHINE DIRECTION \*TD = TRANSVERSE DIRECTION

## STORAGE & HANDLING

FLEXOPP™ does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at operating environment for 24 hours before processing. FLEXOPP™ is best suitable for use within 6 months from date of dispatch.

## FOOD CONTACT

FLEXOPP™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

## DISCLAIMER

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

\*\*TDS issued on 13.04.2023. All previous versions of this grade are invalid.

**FlexFilms**

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