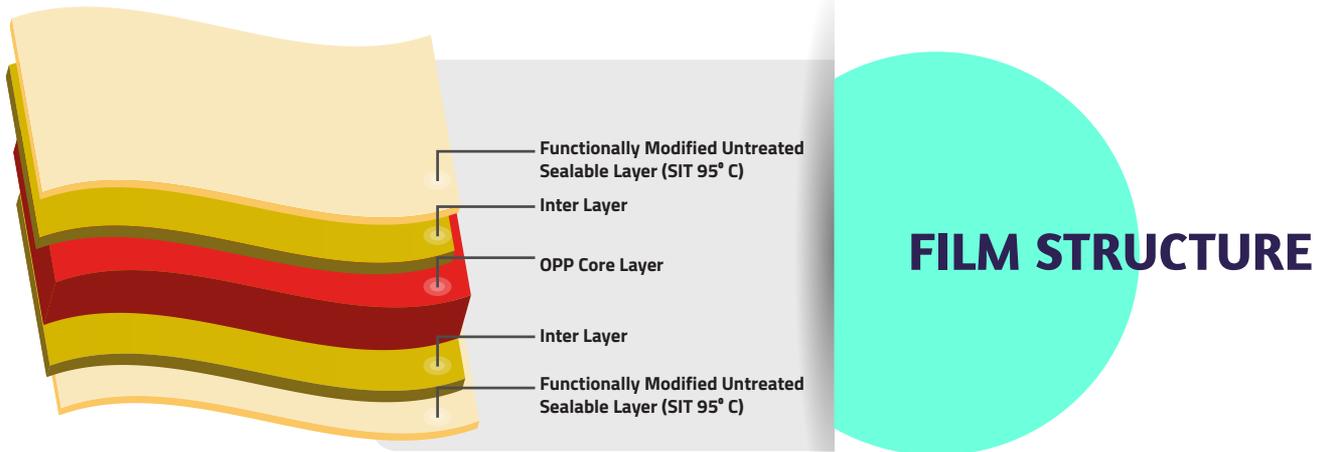


# B-TCO

## Cigarette Over Wrap Heat Sealable BOPP Film

B-TCO is a functionally modified heat sealable with enhance seal performance untreated film for cigarette o/w.



### THE BIG DIFFERENTIATORS



**Good Optics**  
Imparting richness & quality image to the brands.



**Good Stiffness**  
Better performance on high speed with minimum wastage.



**Enhanced Seal Functionality**  
Very Low SIT , Excellent hot tack designed to substantially improve productivity & operating efficiency at cigarette o/w m/c.



**Good Hot Slip**  
Enhanced jaw release to increase overwrap speed.



**Good Antistatic**  
Good machinability.

### KEY FEATURES:

- Good optics
- Good stiffness
- Controlled antistatic & slip
- Good hot slip

### APPLICATIONS:

- Cigarette over wrap
- Blade overwrap

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES	
THICKNESS		Internal	Micron	18	20
			(Gauge)	72	80
FILM DENSITY		D-1505	gm/cc	0.91	
GRAMMAGE		Internal	gm/m <sup>2</sup>	16.4	18.2
YIELD		Internal	m <sup>2</sup> /kg	61.1	54.9
			in <sup>2</sup> /lb	42953	38594
COEFF OF FRICTION (UTR/UTR)	Dynamic	D-1894	-	0.30±0.05	
HAZE		D-1003	%	2.0	2.2
GLOSS (at 45°)		D-2457	Unit	87	85
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm <sup>2</sup>	1350	
	TD*			2500	
	MD*		(KPsi)	19.2	
	TD*			35.5	
ELONGATION AT BREAK	MD*	D-882	%	180	
	TD*			60	
LINEAR SHRINKAGE (max) (5 Minutes at 130°C)	MD*	D-1204	%	6.0	
	TD*			3.0	
HEAT SEAL INITIATION TEMPERATURE		Internal	°C	95	
HEAT SEAL STRENGTH	(Min.)	Internal	gm/25mm	300	325
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	6.8	6.5
			(gm/100 in <sup>2</sup> /day)	0.44	0.42
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	1800	1800
			(cc/100 in <sup>2</sup> /day)	116	116

Ref no QAD UFLI S/14 – B 12/3

\*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 01-04-2020. All previous version of this grade are invalid.

**FlexFilms**

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