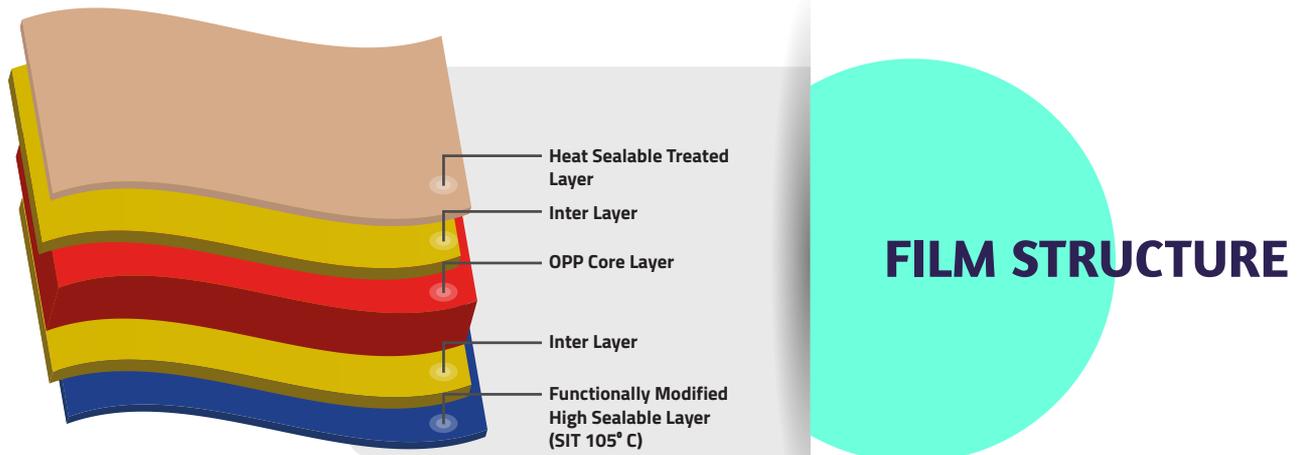


B-TBO Bundle Over Wrap Heat Sealable Film

B-TBO is a both side heat sealable with one side functionally modified & other side treated for bundle over wrap.



THE BIG DIFFERENTIATORS



Good Hot Slip

Enhanced jaw release to increase overwrap speed.



Optimum Stiffness

Improved runnability.



Optimized Seal Functionality

High performance at high speed.



Fine Optics

Aesthetically appealing look.



Good Antistatic & Slip

High performance on over wrap m/c with minimal wastage.

KEY FEATURES:

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

APPLICATIONS:

- Bundle over wrap of cosmetic, personal care & perfume carton boxes

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	30	35	40	45	50
			(Gauge)	120	140	160	180	200
FILM DENSITY		D-1505	gm/cc	0.91				
GRAMMAGE		Internal	gm/m ²	27.3	31.8	36.4	40.9	45.5
YIELD		Internal	m ² /kg	36.6	31.4	27.5	24.4	22.0
			in ² /lb	25730	22074	19332	17153	15446
TREATMENT LEVEL		D-2578	dyne/cm	38				
COEFF OF FRICTION (UTR/UTR)	Dynamic	D-1894	-	0.30±0.05				
HAZE		D-1003	%	1.7	1.7	2.0	2.2	2.5
GLOSS (at 45°)		D-2457	Unit	85	85	83	82	80
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm ²	1250				
	TD*			2500				
	MD*		(KPsi)	17.8				
	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	105				
HEAT SEAL STRENGTH	(Min.)	Internal	gm/25mm	425	425	450	450	475
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m ² /day	5.7	5.5	5.0	4.7	4.5
			(gm/100 in ² /day)	0.37	0.35	0.32	0.30	0.29
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m ² /day	1600	1500	1300	1200	1200
			(cc/100 in ² /day)	103	97	84	77	77

Ref no QAD UFLI S/14 – B 16/3

*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

Manufacturing Facilities at
India | UAE | Poland | Egypt | Mexico |
USA | Hungary | Russia | Nigeria
enquiry@flexfilm.com
www.flexfilm.com