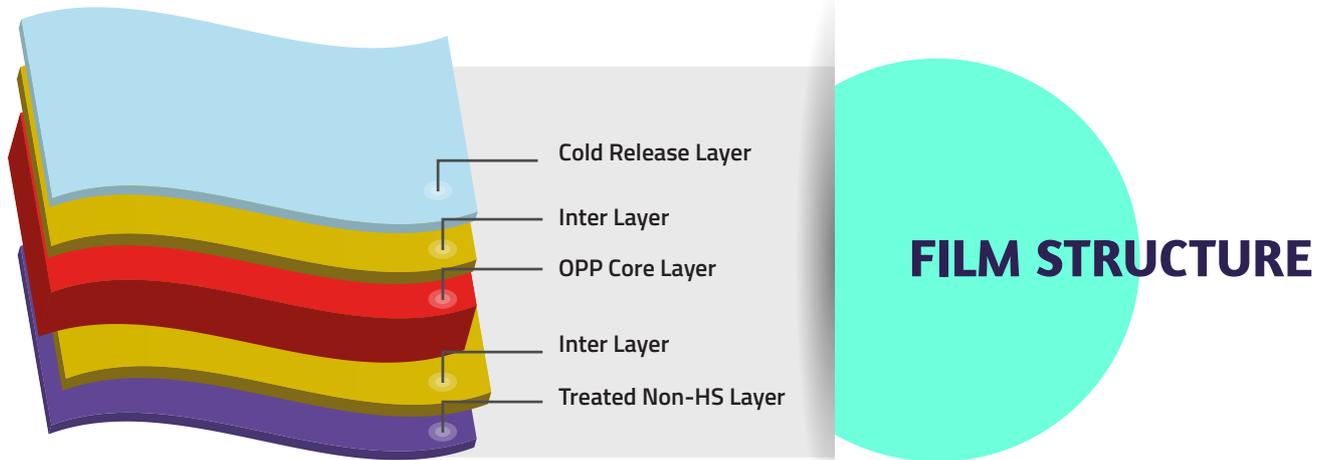


# B-TCR

## Transparent Cold Seal Release BOPP Film

B-TCR is a functionally modified high gloss non sealable film with consistent slip for cold seal release application.



## THE BIG DIFFERENTIATORS



### Consistently Low Cold Seal Release Force

Enables un-blocked easy opening cold seals.



### Strong Bonds

Improved ink adhesion & stronger lamination bond.



### Fine Printability

Excellent halftone dot transfer.



### Good Optics

Finer print images.



### Optimal COF

Excellent runnability.

## KEY FEATURES:

- Excellent cold seal release performance
- Low & consistent COF
- High gloss
- Good printability
- Good dimensional stability

## APPLICATIONS:

- Cold seal release film for chocolate & confectionary

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	12	15	18	20	25
			(Gauge)	48	60	72	80	100
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
YIELD		Internal	m <sup>2</sup> /kg	91.7	73.1	61.1	54.9	44.0
			in <sup>2</sup> /lb	64465	51389	42953	38594	30932
TREATMENT LEVEL		D-2578	dyne/cm	38				
COEFF OF FRICTION	DYNAMIC	D-1894	-	0.28±0.05				
HAZE		D-1003	%	1.5	1.5	1.6	1.6	1.7
GLOSS (at 45°)		D-2457	Unit	98	98	95	95	92
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	%	220				
	TD*			60				
LINEAR SHRINKAGE (max) (5 Minutes at 130°C)	MD*	D-1204	%	6.0				
	TD*			3.0				
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
			(gm/100 in <sup>2</sup> /day)	0.48	0.45	0.44	0.42	0.39
OXYGEN TRANSMISSION RATE (23° C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	2300	2000	1800	1800	1700
			(cc/100 in <sup>2</sup> /day)	148	129	116	116	110

Ref no QAD UFLI S/17 – B 47/2

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

**FlexFilms**

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