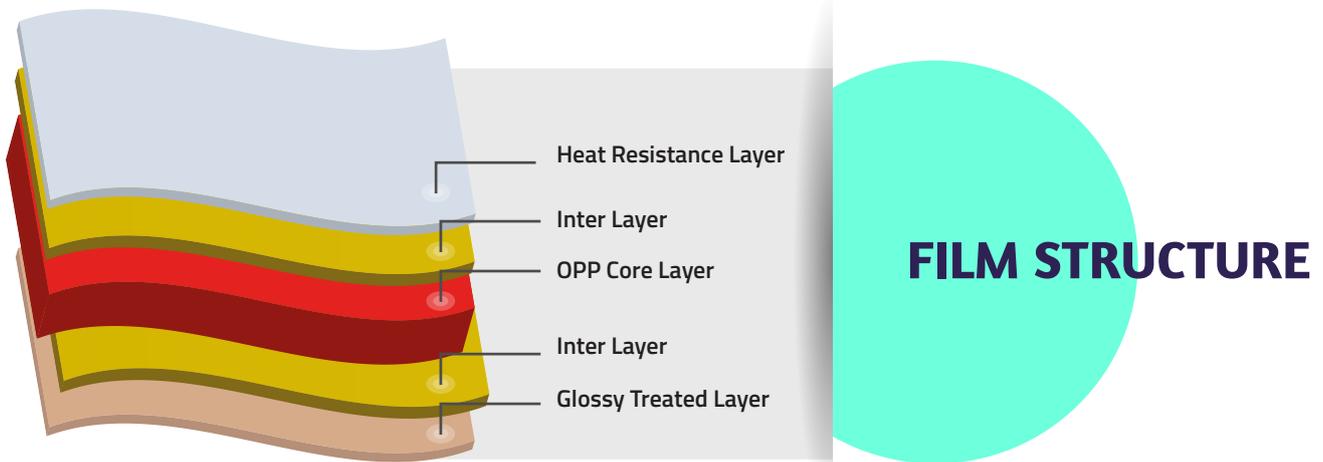


# B-THR

## High Heat Resistance Transparent BOPP Film

B-THR is a functionally modified BOPP film having one side modified with high heat resistance and other side treated.



## THE BIG DIFFERENTIATORS



**High Heat Resistance**  
Good heat resistance, that's imperative for stand-up & gusseted pouch applications.



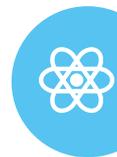
**Sustainable & Recyclable Solution**  
Could substitute reverse printed pet layer to homogenize laminate structure.



**Fine Printability**  
Excellent halftone dot transfer.



**Optimized Jaw Release**  
Enables high speed operation.



**Strong Bonds**  
Improved ink adhesion & stronger lamination bond.

### KEY FEATURES:

- High heat resistance (SIT>160°C)
- Good jaw release property
- Good seal finishing In stand up pouch & 3D bags
- Inside/bottom gusseted film will not seal to itself
- Good optics
- Good machinability
- Sustainable recycle solution

### APPLICATIONS:

- Stand up pouches
- 3D pouches
- Can replace PET (less OTR sensitive)

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES			
THICKNESS		Internal	Micron	12	15	18	20
			(Gauge)	48	60	72	80
FILM DENSITY		D-1505	gm/cc	0.91			
GRAMMAGE		Internal	gm/m <sup>2</sup>	10.9	13.7	16.4	18.2
YIELD		Internal	m <sup>2</sup> /kg	91.7	73.1	61.1	54.9
			in <sup>2</sup> /lb	64465	51389	42953	38594
TREATMENT LEVEL		D-2578	dyne/cm	38			
COEFF OF FRICTION	DYNAMIC	D-1894	-	0.30 ± 0.05			
HAZE		D-1003	%	1.6	1.6		
GLOSS (at 45°)		D-2457	Unit	95	95		
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	>160			
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 5/17 – B 48/2

\*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 01-07-2023. All previous version of this grade are invalid.

**FlexFilms**

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