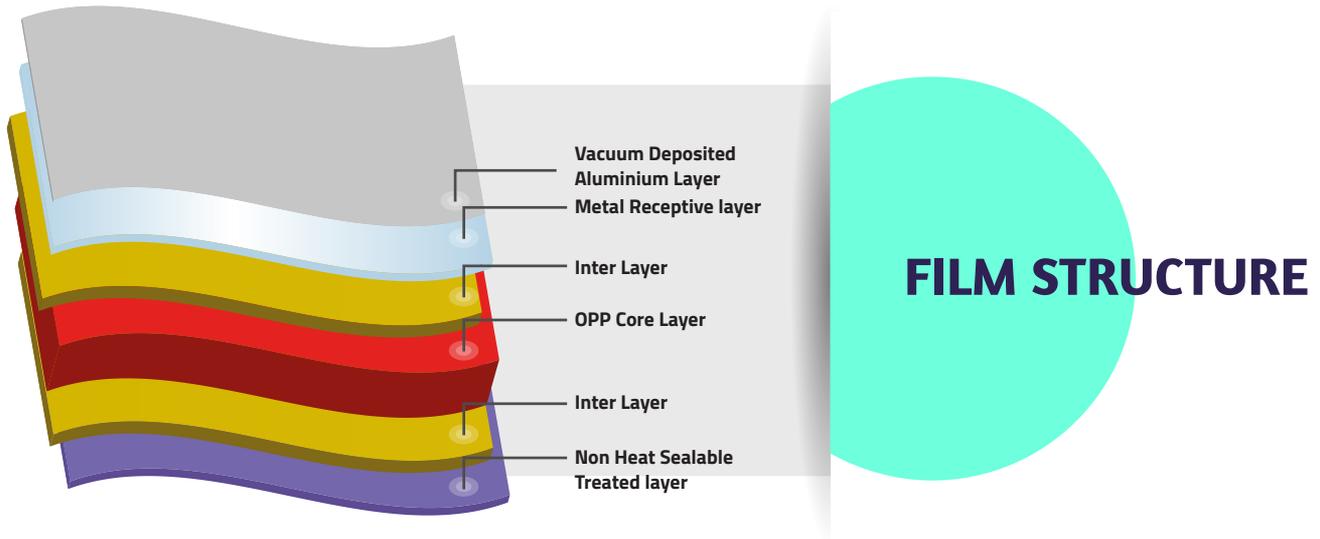


# B-TSV-M

## Sandwich Grade Non Heat Sealable Metallized Bopp Film

B-TSV-M is a metallized BOPP film with both side treatment for sandwich applications.



## THE BIG DIFFERENTIATORS



### Excellent Metal Bond & Metal Cracking Resistance

Durability & sustainability of barrier under extreme conditions.  
Enhanced extrusion/ adhesive bond strengths.



### Excellent Metal Brilliance

Imparting enrichens to the brands.



### Good Machinability

Good productive performance.



### Good Metal Bond

Very good extrusion/adhesive bonds resulting in barriers that last longer.



### Optimized Treatment Both side

No film blocking.

## KEY FEATURES:

- Brilliant metal appearance
- Good metal bond
- Standard barrier

## APPLICATIONS:

- Sandwich lamination

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES		
THICKNESS		Internal	Micron	15	18	20
			(Gauge)	60	72	80
FILM DENSITY		D-1505	gm/cc	0.91		
GRAMMAGE		Internal	gm/m <sup>2</sup>	13.7	16.4	18.2
YIELD		Internal	m <sup>2</sup> /kg	73.1	61.1	54.9
			in <sup>2</sup> /lb	51389	42953	38594
TREATMENT LEVEL		D-2578	dyne/cm	36		
OPTICAL DENSITY (TOLERANCE : ±5%)		-	-	2.2		
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		
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	1.1	1.0	1.0
			(gm/100 in <sup>2</sup> /day)	0.07	0.06	0.06
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	125	110	100
			(cc/100 in <sup>2</sup> /day)	8.0	7.1	6.4

Ref no QAD UFLI 5/14 – MB 3/2

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

## STORAGE & HANDLING

FLEXMETPROTECT™ 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. FLEXMETPROTECT™ is best suitable for use within 3 months from date of dispatch.

## FOOD CONTACT

FLEXMETPROTECT™ 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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