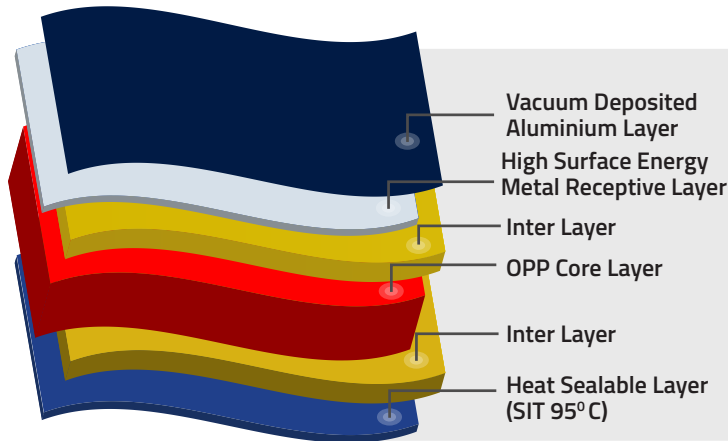


# B-TUH-M

## High Barrier & Robust Seal Metallized BOPP Film

TUH-M is a high oxygen & moisture barrier metallized film with robust seal performance (high seal strength, hermetic seal, high & broad hot tack, low SIT).



### FILM STRUCTURE

## THE BIG DIFFERENTIATORS



### Excellent Oxygen & Moisture Barriers

Improves shelf life of chips/snacks by 25%, retaining classical freshness, crispness.



### Robust Seal Performance

Low SIT, excellent broad & high hot tack, good hermetic seal & high seal strength.



### OTM (Over The Mountain) Attribute

Sustainable good sealing performance at high altitude attributing no pack leakage.



### Good Metal Bond

Very good extrusion/adhesive bond resulting durable barriers.



### Unique Value Proposition

To replace 3 layer structures to 2 layers in numerous seal packaging formats especially multipacks.

## KEY FEATURES:

- Excellent oxygen barrier
- Outstanding moisture barrier
- Good metal adhesion & brilliance
- Good extrusion bond & metal cracking
- Robust seal performance (Hermetic seal, high seal strength, excellent hot tack)

## APPLICATIONS:

- Biscuits, bakery & snacks
- Especially designed LUP & MUP packs

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES
THICKNESS		Internal	Micron	25
			(Gauge)	100
FILM DENSITY		D-1505	gm/cc	0.91
GRAMMAGE		Internal	gm/m <sup>2</sup>	22.7
YIELD		Internal	m <sup>2</sup> /kg	44.0
			in <sup>2</sup> /lb	30932
TREATMENT LEVEL		D-2578	dyne/cm	36
OPTICAL DENSITY (TOLERANCE: +/- 5%)		Internal	-	2.6
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	95
HEAT SEAL STRENGTH	(Min)	Internal	gm/25mm	1500
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	0.1
			(gm/100 in <sup>2</sup> /day)	0.006
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	10
			(cc/100 in <sup>2</sup> /day)	0.6

Ref no QAD UFLI S/20 – MB 7/1

\*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

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\*\*TDS issued on 01-04-2020. All previous versions of this grade are invalid.

**FlexFilms**

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