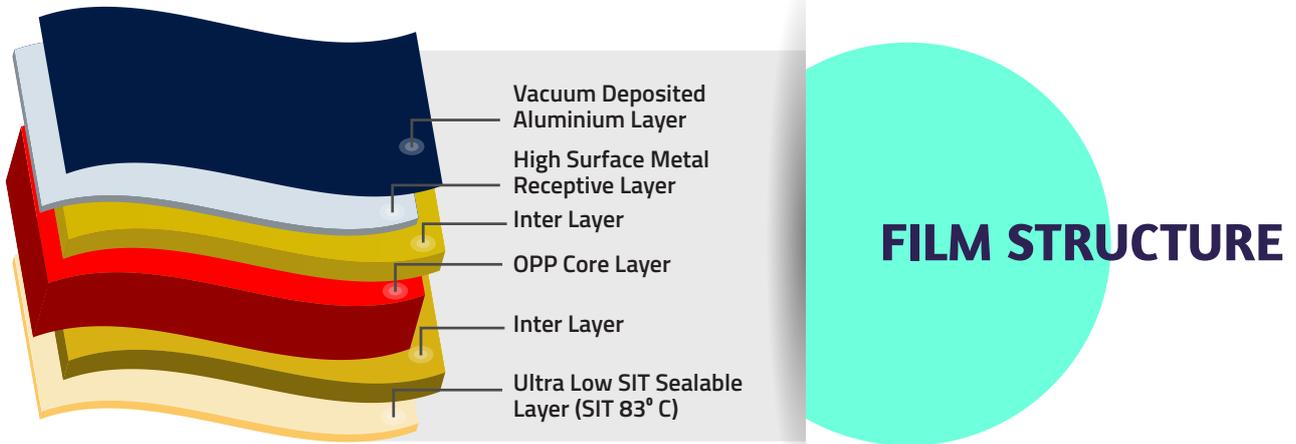


B-TUO-LS-M

High Barrier Metallized BOPP Film

B-TUO-LS-M is a superior oxygen, moisture & aroma barriers metallized film with enhanced sealant layer (Ultra Low SIT, Broad & High hot tack) & metal bond.



THE BIG DIFFERENTIATORS



Excellent Oxygen, Moisture & Aroma Barriers

Improve shelf life of chips/snacks by 25% retaining classical freshness & crispness.



Enhanced Seal Functionality

Very low SIT, excellent broad & high hot tack, optimal hermetic seal designed to substantially improve productivity & operating efficiency at FFS m/c.



Superior Metal Bond & Metal Cracking Resistance

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



Excellent Metal Gloss

Enhanced graphics & images.



Optimal COF

Excellent runnability at high speed both during the lamination process as well as on FFS m/c.

KEY FEATURES:

- Superior oxygen barrier
- Outstanding moisture barrier
- Good metal adhesion & brilliance
- Ultra low SIT & broad hot tack
- Good extrusion bond & metal cracking resistance
- Excellent runnability on HFFS & VFFS machines

APPLICATIONS:

- Chips & snacks
- Bakery (biscuits/cookie/crackers)
- Confectionery & cereals

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	15	17.5	18	20	30
			(Gauge)	60	70	72	80	120
FILM DENSITY		D-1505	gm/cc	0.91				
GRAMMAGE		Internal	gm/m ²	13.7	15.9	16.4	18.2	27.3
YIELD		Internal	m ² /kg	73.1	62.9	61.1	54.9	36.6
			in ² /lb	51389	44214	42953	38594	25730
TREATMENT LEVEL		D-2578	dyne/cm	36				
OPTICAL DENSITY (TOLERANCE: +/- 5%)		Internal	-	2.8				
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm ²	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	83				
HEAT SEAL STRENGTH	(Min)	Internal	gm/25mm	400	425	425	450	475
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m ² /day	0.1				
			(gm/100 in ² /day)	0.007				
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m ² /day	15				
			(cc/100 in ² /day)	0.97				

Ref no QAD UFLI S/20 - MB 10/1

*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 an 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 versions of this grade are invalid.

Manufacturing Facilities at
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