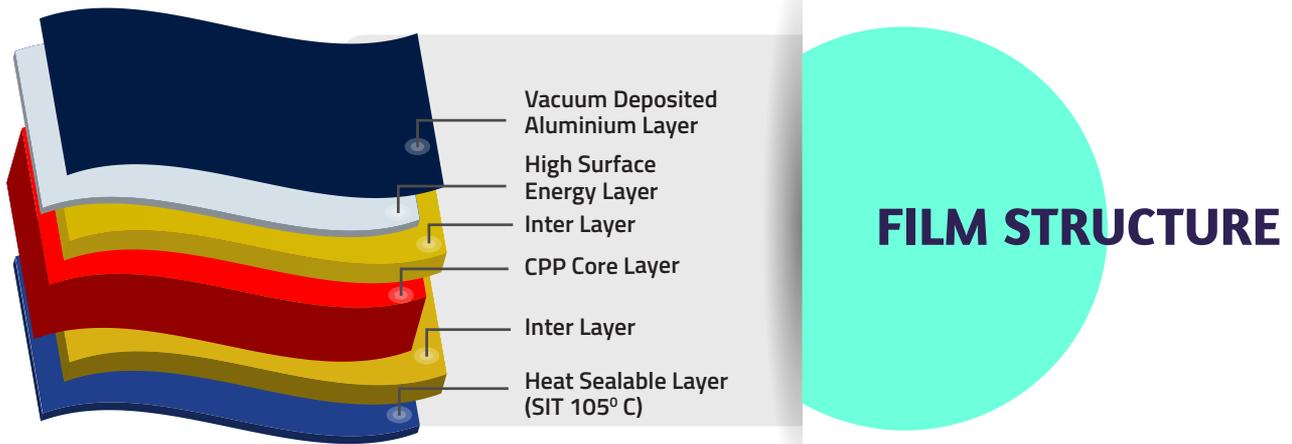


# C-CUM-M

## Ultra High Barrier Metallized Film

C-CUM-M is a Ultra High Barrier with robust seal performance Metallized CPP film having excellent metal adhesion on corona treated side and other side with low SIT & Broad Hot Tack.



## THE BIG DIFFERENTIATORS



### Excellent Oxygen, Moisture & Aroma Barriers

Improve shelf life of chips/snacks by 35% retaining classical freshness & crispness.



### Enhanced Seal Functionality

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



### Exceptional Metal Brilliance

Enhanced graphics & images.



### Excellent Metal Bond & Metal Cracking Resistance

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



### Optimal COF

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

## KEY FEATURES:

- Excellent barrier property
- Excellent metal adhesion
- Robust Seal performance(Low SIT)
- High & Broad Hot Tack window
- Excellent Hermetic Seal

## APPLICATIONS:

- Snacks & biscuits packaging
- Specially designed for extrusion lamination also suitable for solventless & solventbase lamination
- High speed packaging on FFS machine

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES
THICKNESS		Internal	Micron	30
			(Gauge)	120
FILM DENSITY		D-1505	gm/cc	0.91
GRAMMAGE		Internal	gm/m <sup>2</sup>	27.3
YEILD		Internal	m <sup>2</sup> /kg	36.6
			in <sup>2</sup> /lb	25730
TREATMENT LEVEL		D-2578	dyne/cm	36
OPTICAL DENSITY (TOLERANCE: +/- 5%)		Internal	-	2.5
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm <sup>2</sup>	550
	TD*			270
	MD*		(KPsi)	7.8
	TD*			3.8
ELONGATION AT BREAK	MD*	D-882	%	450
	TD*			600
HEAT SEAL INITIATION TEMPERATURE		Internal	°C	105
HEAT SEAL STRENGTH	(Min)	Internal	gm/25mm	2200
WATER VAPOUR TRANSMISSION RATE (38°C & 90% RH)		F-1249	gm/m <sup>2</sup> /day	0.4
			(gm/100 in <sup>2</sup> /day)	0.025
OXYGEN TRANSMISSION RATE (23°C & 0% RH)		D-3985	cc/m <sup>2</sup> /day	≤ 20
			(cc/100 in <sup>2</sup> /day)	≤ 1.3

\*Ref no QAD UFLI 5/20 - MC 6/1

\*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. It is a fact that Metallized films age with time and will exhibit deterioration in the surface treatment levels. A guarantee of the duration of the treatment on the metallized surface cannot therefore be given. In case of deterioration of surface treatment level, in line refreshment of corona treatment is recommended before processing of the material. 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 11-10-2023.All previous version of this grade are invalid.

**FlexFilms**

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