

# F-MSH-M

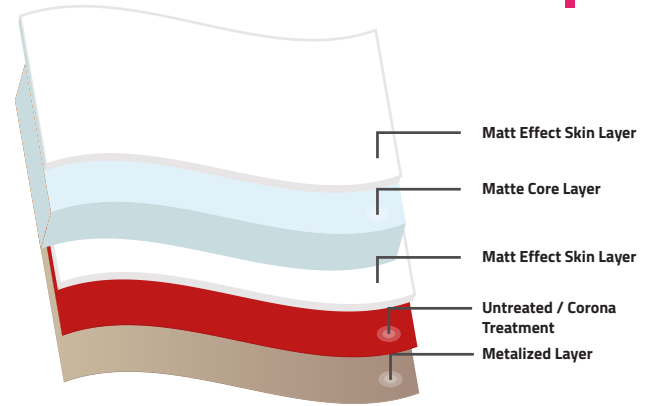
## SUPER MATT EFFECT METALLIZED BOPET FILM

F-MSH-M grade of super matt metallized BOPET film having metallization on corona treated or Untreated side. This grade of film has a matt surface and thus gives a different aesthetic appeal of an Aluminum foil. It is available in optical density ranging from 1.4 to 3.0. The wide range of optical properties gives choice to the customer to use the product for diverse range of applications. It can be metallized on either side as per specified by the customer requirements.

### KEY FEATURES:

- Very Good Aesthetic appearance
- Good Stiffness

## FILM STRUCTURE



### APPLICATION:

- Lamination & Conversion
- Confectionery & Snacks
- 2 or 3 ply lamination
- Board Lamination & label application

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
OPTICAL DENSITY*** (TOLERANCE : +/- 5%) (* ** Customer to specify the O.D. value as per their application )				Standard Density (SD) 2.2 - Normal Packaging Application High Density (HD) 2.5 - High Barrier Application Very High Density (VHD) 2.8 - Special Application		
THICKNESS	Internal	Micron		12	19	23
		(Gauge)		48	76	92
YIELD	Internal	m <sup>2</sup> / kg		59.52	37.59	31.05
		in <sup>2</sup> /lb		41934	26483	21876
COF (max) One side to the other side		ASTM D-1894	-	0.60	0.60	0.60
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm <sup>2</sup>	1500	1500	1400
	TD			1900	1900	1900
	MD		(Psi)	21400	21400	19900
	TD			27000	27000	27000
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	110	120	130
	TD			75	80	85
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	ASTM D-1204	%	1.5		
	TD			0.6		
WVTR (38°C & 90%RH) (typical)	ASTM F-1249	gm/m <sup>2</sup> /day	SD	HD	VHD	
			1.0	0.6	0.4	
			(gm/100in <sup>2</sup> /day)	0.06	0.04	0.03
OTR (23°C & 0%RH) (typical)	ASTM D-3985	cc/m <sup>2</sup> /day	1.1	1.0	0.8	
		(cc/100in <sup>2</sup> /day)	0.07	0.06	0.05	

# The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

### STORAGE & HANDLING

FLEXMETPROTECT™ needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, FLEXMETPROTECT™ is suitable for use within 180 days from the date of shipment.

### FOOD CONTACT

FLEXMETPROTECT™ complies with EU and FDA regulations on plastic materials used for food grade application. Specific documents and SDS are available on request.

### DISCLAIMER

It is the responsibility of our customer 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.

Ref. No: QAD UFLI S/20 - MF20/1

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

## FlexFilms

Manufacturing Facilities at

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