



# FLEXMETPROTECT™ F-MUF-M

## Technical Data Sheet

(METALLIZED POLYESTER FILM)

### Product Description:

FLEXMETPROTECT™ F-MUF-M is a matt finish metallized polyester having metallization on Chemical side and other side corona treated or Untreated standard surface.

### Key Features:

Very Good Aesthetic appearance  
Good Stiffness

### Applications:

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

FLEXMETPROTECT™ F-MUF-M grade of film is matt metallized polyester film. This grade of films have a matt surface and thus gives a different aesthetic appeal of an Aluminum foil. It is available in optical density ranging from 2.0 to 2.6. The wide range of optical properties give choice to the customer to use the product for diverse range of applications.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE		
			12	19	50
OPTICAL DENSITY*** (TOLERANCE : +/- 5%) (*** Customer to specify the OD value as per their application)		-	SD 2.2 - Normal Packaging Application HD 2.5 - Barrier Packaging Application VHD 2.8 - High Barrier Application		
THICKNESS	Internal	Micron (Gauge)	12 48	19 76	50 200
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4
GRAMMAGE	Internal	gm/m <sup>2</sup>	16.8	26.6	70.0
YIELD	Internal	m <sup>2</sup> /kg in <sup>2</sup> /lb	59.52 41934	37.59 26483	14.28 10060
COEFF OF STATIC FRICTION METAL WOUND	D-1894	-	0.6 # MI/MO	0.6 MI/MO	0.6 MI/MO
TENSILE STRENGTH AT BREAK	MD* TD* D-882	Kg/cm <sup>2</sup> (Psi)	1700 2000 24200 28500	1700 2000 24200 28500	1500 2000 21300 28500
ELONGATION AT BREAK	MD TD D-882	%	110 75	120 80	200 90
LINEAR SHRINKAGE ( Max.) (AT 105 <sup>o</sup> C/30 Minute)	MD TD D-1204	%	1.5 0.6	1.5 0.6	1.5 0.6
W.V.T.R.(38 <sup>o</sup> C & 90%RH)	F-1249	gm/m <sup>2</sup> /day (gm/100in <sup>2</sup> /day)	SD 1.0 0.06	HD 0.6 0.04	VHD 0.4 0.03
O.T.R. (23 <sup>o</sup> C & 0%RH)	D-3985	cc/m <sup>2</sup> /day (cc/100in <sup>2</sup> /day)	1.1 0.07	1.0 0.06	0.8 0.05

Ref no QAD UFLI S/17 - MF27/1

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

# MI = Metal wound inside, MO = Metal wound out side

SD- Standard Density, HD - High Density, VHD - Very High Density

### STORAGE & HANDLING

FLEXMETPROTECT™ need to be stored in a closed warehouse and should not be exposed to direct sunlight or light sources and from humidity. It is recommended to store below 35° C in dry place.FLEXMETPROTECT™ is suitable for use within 6 months from date of manufacturing, only if stored in recommended condition.

### FOOD CONTACT

FLEXMETPROTECT™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

### DISCLAIMER

It is the responsibility of our customer to determine that their use of our product(s) is safe, lawful, and technically suitable in their intended applications.The Values given in the technical data sheet represent typical values based on the best of our knowledge as on date when the data was compiled. It 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 Gives no warranty or accept liability for any loss and fitness of the product for any specific purpose. Flex reserves the right to change the technical data sheet at any time for enhancing the quality of the products without prior information

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