



# FLEXMETPROTECT™ F-WUF-M

## Technical Data Sheet

(METALLIZED POLYESTER FILM)

### Product Description:

FLEXMETPROTECT™ F-WUF-M is a White Opaque metallized polyester film having metallization on chemical coated side and other side corona treated or Untreated standard surface.

### Key Features:

Very Good Aesthetic appearance  
Good Stiffness

### Applications:

Lamination & Conversion  
Label application  
Board Lamination  
Confectionery & Snacks

FLEXMETPROTECT™ F-WUF-M grade of film is a White Opaque metallized polyester films. This grade of films have a White Opaque 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 give choice to the customer to use the product for diverse range of applications. The metallization is available on plain side (MU) or on corona treated side (MT), as specified by the customer.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE		
			12	23	
<b>OPTICAL DENSITY**</b> (TOLERANCE : +/- 5%) (*** Customer to specify the OD value as per their application)		-	<b>SD</b> 2.2 - Normal Packaging Application <b>HD</b> 2.5 - Barrier Packaging Application <b>VHD</b> 2.8 - High Barrier Application		
<b>THICKNESS</b>	<b>Internal</b>	<b>Micron</b> (Gauge)	12 48	23 92	
<b>FILM DENSITY</b>	<b>D-1505</b>	<b>gm/cc</b>	1.45	1.45	
<b>GRAMMAGE</b>	<b>Internal</b>	<b>gm/m<sup>2</sup></b>	17.4	33.4	
<b>YIELD</b>	<b>Internal</b>	<b>m<sup>2</sup>/kg</b> <b>in<sup>2</sup>/lb</b>	57.47 40490	29.98 21122	
<b>COEFF OF KINETIC FRICTION</b>	<b>D-1894</b>	-	0.7	0.7	
<b>METAL WOUND</b>			<b>MI/MO</b>	<b>MI/MO</b>	
<b>TENSILE STRENGTH AT BREAK</b>	<b>MD*</b> <b>TD*</b> <b>D-882</b>	<b>Kg/cm<sup>2</sup></b> (Psi)	1700 2000 24200	1600 2000 22700	
<b>ELONGATION AT BREAK</b>	<b>MD</b> <b>TD</b> <b>D-882</b>	<b>%</b>	110 80	115 80	
<b>LINEAR SHRINKAGE ( Max.)</b> (AT 105 <sup>0</sup> C/30 Minute)	<b>MD</b> <b>TD</b> <b>D-1204</b>	<b>%</b>	1.5 0.6	1.5 0.6	
<b>W.V.T.R.(38<sup>0</sup>C &amp; 90%RH)</b>	<b>F-1249</b>	<b>gm/m<sup>2</sup>/day</b> (gm/100in <sup>2</sup> /day)	<b>SD</b> 1.0 <b>HD</b> 0.06 <b>VHD</b> 0.03	<b>SD</b> 0.6 <b>HD</b> 0.04 <b>VHD</b> 0.03	<b>SD</b> 0.4 <b>HD</b> 0.04 <b>VHD</b> 0.03
<b>O.T.R. (23<sup>0</sup>C &amp; 0%RH)</b>	<b>D-3985</b>	<b>cc/m<sup>2</sup>/day</b> (cc/100in <sup>2</sup> /day)	<b>SD</b> 1.1 <b>HD</b> 0.07 <b>VHD</b> 0.03	<b>SD</b> 1.0 <b>HD</b> 0.06 <b>VHD</b> 0.03	<b>SD</b> 0.8 <b>HD</b> 0.06 <b>VHD</b> 0.03

Ref no QAD UFLI S/17 - MF26/1

\*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 stocked 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.

\*\*TDS issued on 06-10-2017.

Website: [www.flexfilm.com](http://www.flexfilm.com)