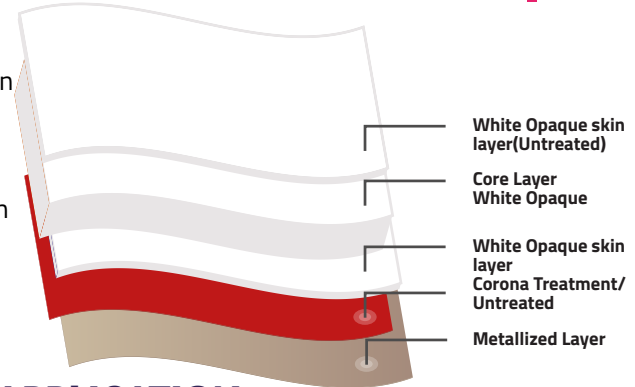


# F-WAP-M METALLIZED OPAQUE FILM

F-WAP-M is a metallized white opaque BOPET film. The film has a white opaque surface giving it an aesthetic appeal similar to that of aluminum foil. It is available in optical densities ranging from 2.2 to 2.8; this wide range of optical densities gives the customer a diverse range of application options. The metallization is available on the Untreated surface (MU) giving a bond strength between the metal and the film of 100gm/25mm or on the Corona Treated surface (MT) giving a bond strength between the metal and the film of 130gm/25mm.

## FILM STRUCTURE



### KEY FEATURES:

- Excellent aesthetic appearance
- Good stiffness

### APPLICATION:

- Label application
- Lamination & Conversion
- Board Lamination
- Confectionery & Snacks

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES		
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.)				Standard Density (SD) 2.2 - Normal Packaging Application High Density (HD) 2.5 - Barrier Packaging Application Very High Density (VHD) 2.8 - High Barrier Application		
THICKNESS		Internal	Micron	12	23	
			(Gauge)	48	92	
YIELD		Internal	m <sup>2</sup> / kg	57.47	29.98	
			in <sup>2</sup> / lb	40490	21122	
SURFACE TENSION (min) # ★ (Corona Treated surface)		ASTM D-2578	dyne/cm	52		
COF (max) One side to the other side		ASTM D-1894	-	0.70		
TENSILE STRENGTH AT BREAK (min)		ASTM D-882	kg/cm <sup>2</sup>	1700	1600	
				2000	2000	
			(Psi)	24200	22700	
				28500	28500	
ELONGATION AT BREAK (min)		ASTM D-882	%	110	115	
				80	80	
LINEAR SHRINKAGE (max) (30 Minute at 105°C)		ASTM D-1204	%	1.5		
				0.6		
MVTR (typical) (38°C & 90%RH)		ASTM F-1249	gm/m <sup>2</sup> /day	SD	HD	VHD
				1.0	0.6	0.4
OTR (typical) (23°C & 0%RH)		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

★This dyne value is applicable only for NAFTA, SA, and Poland manufacturing plants.

#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.

## FlexFilms

Manufacturing Facilities at

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