

# F-UHB-M

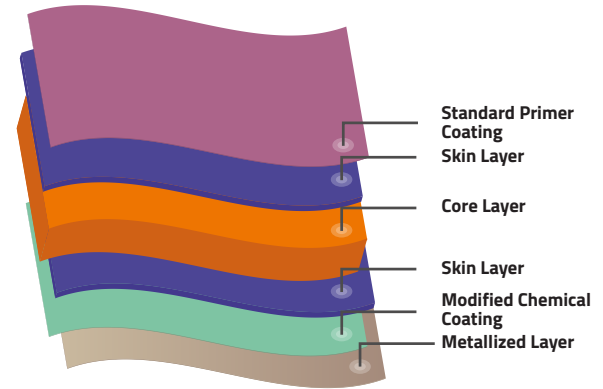
## HIGH BARRIER METALLIZED FILM

F-UHB-M is a metallized BOPET film with an optical density of 3.0. The base polyester is a specialized design for ultra high barrier when metallized. The film is coated with Standard Primer on the other surface. Metallization is available on the Modified Chemical coated surface giving an extremely high bond strength between the metal and film a minimum of 1200 gm/25mm. In addition, puncture resistance is 20% higher versus standard BOPET film.

### KEY FEATURES:

- Excellent barrier properties
- Extremely high metal bond strength
- Improved puncture resistance
- Good machinability & handling properties

## FILM STRUCTURE



### APPLICATION:

- Flexible packaging
- Lamination & Foil Replacement
- Hot fill applications

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES		
OPTICAL DENSITY (TOLERANCE: +/- 5%)			Very High Density (VHD) 3.0 - Special Application		
THICKNESS	Internal	Micron	12	15	23
		(Gauge)	48	60	92
YIELD	Internal	m <sup>2</sup> / kg	59.52	47.62	31.05
		in <sup>2</sup> / lb	41934	33550	21876
PUNCTURE RESISTANCE (gF)	-	gF	8910	9780	14234
SURFACE TENSION (min)★ (Standard Primer Coated Surface) (Modified Chemical Coated Surface)	ASTM D-2578	dyne/cm	40		
			42		
COF (max) (One side to the other side)	ASTM D-1894	-	0.70		
TENSILE STRENGTH AT BREAK (min)	MD TD MD TD	kg/cm <sup>2</sup>	1900	1900	1900
			2000	2000	2000
		(Psi)	27000	27000	27000
			28500	28500	28500
ELONGATION AT BREAK (min)	MD TD	ASTM D-882	%	105	105
				85	85
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD TD	ASTM D-1204	%	1.5	
				0.6	
MVTR (38°C & 50% RH) (typical)	ASTM F-1249	gm/m <sup>2</sup> /day (gm/100 in <sup>2</sup> /day)	VHD		
			0.1		
OTR (23°C & 0% RH) (typical)	ASTM D-3985	cc/m <sup>2</sup> /day (cc/100 in <sup>2</sup> /day)	0.006		
			0.1		
			0.006		

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

### 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 -MF50/1

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

## FlexFilms

Manufacturing Facilities at  
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