

Product Description:

>Base polyester is a specialized design for ultra high barrier when metalized

Application:

>Flexible packaging

>Lamination

>Hot fill applications up to 80°C .

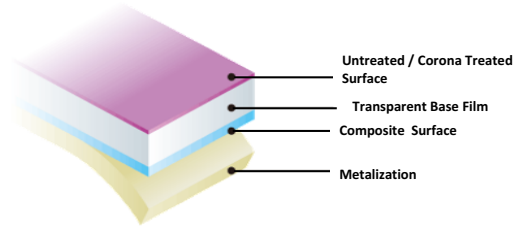
Key Features:

>Excellent barrier properties

>High metal bond strength

>Good machinability & handling properties

PROVISIONAL ONLY

Film Structure


FLEXMETPROTECT™ F-UHB-M is a metalized polyester film. The film is either Untreated or Corona Treated on the other surface. The film is available with optical densities ranging from 2.6 to 3.0 giving the customer the ability to use for a diverse range of applications. The metalization is available on the plasma treated surface giving a bond strength between the metal and the film a minimum of 350gm/25mm. This film grade is suitable for flexible packaging including hot fill applications up to 80°C.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUES					
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.)			Very High Density (VHD) 2.8 - Special Application					
THICKNESS	Internal	Micron (Gauge)	10	12	15	19	23	
			40	48	60	76	92	
YIELD		m ² /kg	71.42	59.52	47.62	37.59	31.05	
		in ² /lb.	50318	41934	33550	26483	21876	
SURFACE TENSION (range) (Plain surface) (Corona Treated surface)	D-2578	Dyne/cm					48-50	
							52-64	
COF (max) (MI/MO)	D-1894	-					0.50	
TENSILE STRENGTH AT BREAK (min)	MD	Kg/cm ²	1900	1900	1900	1900	1900	
			2000	2000	2000	2000	2000	
	TD	(Psi)	27000	27000	27000	27000	27000	
			28500	28500	28500	28500	28500	
ELONGATION AT BREAK (min)	MD	%	105	105	105	110	115	
			TD	85	85	85	85	90
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	%					1.5	
			TD					0.6
GLOSS (min) (Metalized surface) (Bare surface)	D-2578	-					750	
							600	
MVTR (max) (38°C & 90%RH)	F-1249	gm/m ² /day (gm/100in ² /day)					VHD	
							0.1	
OTR (max) (23°C & 0%RH)	D-3985	cc/m ² /day (cc/100in ² /day)					0.006	
							0.1	
							0.006	

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

MI - Metal Wound In / MO - Metal Wound Out

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 6 month from the date of manufacturing.

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 customers 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 on the 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 Films (USA) Inc. gives no warranty nor accepts 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.