



**Product Description:**

FLEX METPROTECT™ B-TVH-M is a metallized BOPP Film having metal deposit on treated side other side sealable.

**Key Features:**

Excellent Moisture Barrier  
Improved Oxygen Barrier  
Excellent metal anchorage  
Good hot tack properties  
Good heat seal integrity

**Applications:**

Packaging and Conversion  
Extrusion Lamination  
Cold Seal application

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUE				
				15	18	20	25	30
OPTICAL DENSITY** (TOLERANCE : +/- 5%) ** The film of high O.D. = 2.4 (Min.) is also available.			-	2.2	2.2	2.2	2.2	2.2
THICKNESS		Internal	Micron (Gauge)	15 60	18 72	20 80	25 100	30 120
FILM DENSITY		D-1505	gm/cc	0.90	0.90	0.90	0.90	0.90
GRAMMAGE		Internal	gm/m <sup>2</sup>	13.50	16.20	18.00	22.50	27.00
YIELD		Internal	m <sup>2</sup> /kg in <sup>2</sup> /lb	74.07 52185	61.73 43491	55.56 39144	44.44 31309	37.04 26096
TREATMENT LEVEL		D-2578	dyne/cm	36	36	36	36	36
TENSILE STRENGTH AT BREAK	MD*	D-882	Kg/cm <sup>2</sup>	1200	1200	1200	1200	1200
	TD*			2500	2500	2500	2500	2500
	MD*		(Psi)	17000	17000	17000	17000	17000
	TD*			35500	35500	35500	35500	35500
ELONGATION AT BREAK	MD	D-882	%	160	160	160	160	160
	TD			60	60	60	60	60
	MD			Kg/cm <sup>2</sup>	18000	18000	18000	18000
TD	30000	30000	30000		30000	30000		
MODULUS OF ELASTICITY	MD	D-882	(KPsi)	255.6	255.6	255.6	255.6	255.6
	TD			426	426	426	426	426
	LINEAR SHRINKAGE (AT 130°C/5 Minute)		MD TD	D-1204	%	< 5.0		
		< 3.0						
HEAT SEAL INITIATION TEMPERATURE		Internal	°C	115	115	115	115	115
HEAT SEAL STRENGTH		Internal	gm/25mm	200	250	250	275	300
W.V.T.R.(38°C & 90%RH)		F-1249	gm/m <sup>2</sup> /day	1.1	1.0	1.0	0.9	0.85
			(gm/100in <sup>2</sup> /day)	0.07	0.06	0.06	0.054	0.051
O.T.R. (23°C & 0%RH)		D-3985	cc/m <sup>2</sup> /day	125	110	100	100	100
			(cc/100in <sup>2</sup> /day)	8.0	7.0	6.5	6.5	6.5

Ref no QAD UFLI S/14 - MB 1/1

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

**STORAGE & HANDLING**

FLEXMETPROTECT™ does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at operating environment for 24 hours before processing. FLEXMETPROTECT™ is best suitable for use up to 3 months from date of dispatch.

**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 11-02-2015.All previous version of this grade are invalid.**

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