

**Product Description:**

Base polyester having one side corona treated or both side untreated . It can be metallized on either side based on customer requirements.

Key Features:

Improved Barrier properties
Balance mechanical properties in all direction
Excellent Machinability & handling properties

Applications:

Lidding Application
Dairy Product
Paper Laminated for Lidding

FLEXMETPROTECT™ F-IST-M grade of films are metallized polyester films having improved barrier properties supported with excellent Lidding properties. They are widely accepted for all kinds of lidding applications, available in optical density ranging from 2.2 to 3.0. The metallization is available on plain side (MU) or on corona treated side (MT) , as specified by the customer. The bond between the metal & film is 100-150 gm/25mm (when metallized on plain side) & 130-180 gms/25mm (when metallized on corona side).

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE					
			12	19	23	36		
OPTICAL DENSITY (TOLERANCE : +/- 5%) (** Customer to specify the OD value as per their specification)		-	SD HD VHD	2.2 - Barrier Packaging Application 2.5 - High Barrier Application 2.8 - Special Application **				
THICKNESS	Internal	Micron (Gauge)	12 48	19 76	23 92	36 144		
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4		
GRAMMAGE	Internal	gm/m²	16.8	26.6	32.2	50.4		
YIELD	Internal	m²/kg	59.52	37.59	31.05	19.84		
		in²/lb	41934	26483	21876	13978		
COEFF OF KINETIC FRICTION	D-1894	-	0.7	0.7	0.7	0.7		
METAL WOUND			# MI/MO	MI/MO	MI/MO	MI/MO		
TENSILE STRENGTH AT BREAK	MD*	D-882	Kg/cm²	1800	1800	1800	1700	
	TD*			1900	1900	1900	1900	
	MD*			(Psi)	25500	25500	25500	24200
	TD*			27000	27000	27000	27000	
ELONGATION AT BREAK	MD	D-882	%	110	115	120	130	
	TD			95	95	100	100	
LINEAR SHRINKAGE (Max.) (AT 105 ⁰ C/30 Minute)	MD	D-1204	%	1.5	1.5	1.5	1.5	
	TD			0.6	0.6	0.6	0.6	
W.V.T.R.(38⁰C & 90%RH)	F-1249	gm/m²/day (gm/100in ² /day)	SD	HD	VHD			
			1.0	0.6	0.4			
O.T.R. (23⁰C & 0%RH)	D-3985	cc/m²/day (cc/100in ² /day)	0.06	0.04	0.03			
			1.1	1.0	0.8			
			0.07	0.06	0.05			

Ref no QAD UFLI S/14 - MF 6/1

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

MI = Metal wound inside, MO = Metal wound out side

SD = Standard Density

STORAGE & HANDLING

FLEXMETPROTECT™ need to be stored 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 11-02-2015.All previous version of this grade are invalid.**

Website: www.flexfilm.com