



Product Description: FLEXMETPROTECT™ Polyester film having metal deposit layer on one side and other side untreated standard surface.	Key Features: Good Optical properties Good Metal Adhesion Excellent Machinability & Dimensional stability	Applications: Flexible Packaging Lamination Duct Insulation
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FLEXBARRIERMET™ F-PCR-M grade of Metallized polyester films is manufactured by using the raw material containing 25%-30% of post consumer recycled PET resin. It is available in 12,15,19,23,36 microns & optical density ranging from 2.0 to 3.0. The wide range of optical properties give choice to the customer to use the product for diverse range of applications. The metallization is available on plain side (MU) or on corona side (MT), as specified by the customer. The bond between the metal & film are as follows-metallized on normal film-100-150gm/25mm, metallized on corona film-130-180gm/25mm.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE				
			12	15	19	23	36
OPTICAL DENSITY*** (TOLERANCE : +/- 5%) *** Customer to specify the value of OD required based on the application.			SD	2.2 - Barrier Packaging Application			
			HD	2.5 - High Barrier Application			
			VHD	2.8 - Special Application **			
THICKNESS	Internal	Micron	12	15	19	23	36
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4
GRAMMAGE	Internal	gm/m²	16.8	21.0	26.6	32.2	50.4
YIELD	Internal	m²/kg	59.52	47.62	37.59	31.05	19.84
		in²/lb	41934	33550	26483	21876	13978
COEFF OF KINETIC FRICTION	D-1894	-	0.7	0.7	0.7	0.7	0.7
METAL WOUND			# MI/MO	MI/MO	MI/MO	MI/MO	MI/MO
TENSILE STRENGTH AT BREAK	MD*	D-882	Kg/cm²	1800		1700	
				1900		1900	
				(Psi)		24200	
				27000		27000	
ELONGATION AT BREAK	MD	D-882	%	105		120	
				85		90	
LINEAR SHRINKAGE (Max.)	MD	D-1204	%	1.5		1.5	
				0.6		0.6	
(AT 105⁰C/30 Minute)	TD			1.5		1.5	
				0.6		0.6	
W.V.T.R.(38⁰C & 90%RH)	F-1249	gm/m²/day	SD	HD		VHD	
			1.0	0.6		0.4	
O.T.R. (23⁰C & 0%RH)	D-3985	(gm/100in²/day)	0.06	0.04		0.03	
			1.1	0.8		0.6	
		cc/m²/day	0.07	0.05		0.04	
		(gm/100in²/day)					

Ref no QAD UFLI S/14 - MF 10/1

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

MI = Metal wound inside MO = Metal wound out side

SD- Standard Density, HD - High Density, VHD - Very High 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