

**Product Description:**

Base polyester having one side chemically coated and other side Untreated or Corona, It can be metallized on either side as per specified by the customer requirements.

Key Features:

Excellent Gloss
Good Barrier Properties
Excellent Metal Bond strength
Excellent Machinability & handling properties

Applications:

Flexible Packaging
Lamination
Decorative application

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METALISED SIDE
F-CHE-M	STANDARD	PLAIN	CO-PET COATING	Metallization will be either side (i.e. On Chemically coat / UT or Corona) TO BE SPECIFIED BY THE CUSTOMER
F-CHC-M	STANDARD	CORONA	CO-PET COATING	
F-CLR-C-M	OPTICALLY CLEAR	PLAIN	CO-PET COATING	
F-CLR-C1-M	OPTICALLY CLEAR	CORONA	CO-PET COATING	
F-XLR-C-M	EXTRA CLEAR	PLAIN	CO-PET COATING	
F-XLR-C1-M	EXTRA CLEAR	CORONA	CO-PET COATING	

FLEXMETPROTECT™ above grades of films are metallised polyester film. The film have superior gloss when metallized on optically clear base film and further improved when metallized on extra clear base film. The film is one side chemically coated layer whereas other side is either plain or corona treated(see grades table above) . Film is available in optical density ranging from 2.0 to 3.0. The wide range of optical densities give choice to the customer to use the product for diverse range of applications. The metallization is available on plain side (MU), corona treated side (MT) or on coated side (MC), as specified by the customer. The bond between the metal & film is 180-200gm/25mm (when metallized on plain side), 250-300 gms/25mm (when metallized on corona side) & 500+gm/25mm (when metallized on chemically coated side) .(The film is not recommended for laminates undergoing high temperature applications as boiling, pasteurization, sterilization, retort, hot oven or microwaves.)

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE		
			12	23	36
OPTICAL DENSITY*** (TOLERANCE : +/- 5%) (*** Customer to specify the OD value as per their application)	Gretag		SD	2.2 - Barrier Packaging Application	
			HD	2.5 - High Barrier Application	
			VHD	2.8 - Special Application	
THICKNESS	Internal	Micron (Gauge)	12	23	36
FILM DENSITY	D-1505	gm/cc	48	92	144
GRAMMAGE	Internal	gm/m²	1.4	1.4	1.4
YIELD	Internal	m²/kg	16.8	32.2	50.4
COEFF OF KINETIC FRICTION	D-1894	in²/lb	59.52	31.05	19.8
METAL WOUND		-	41934	21876	13978
			# MI/MO	MI/MO	MI/MO
TENSILE STRENGTH AT BREAK	MD*	Kg/cm²	1900	1900	1750
	TD*		2000	2000	2000
	MD*	(Psi)	27000	27000	25000
	TD*		28500	28500	28500
ELONGATION AT BREAK	MD	%	105	115	120
	TD		85	90	90
LINEAR SHRINKAGE (Max.)	MD	%	1.5	1.5	1.5
(AT 105⁰C/30 Minute)	TD		0.6	0.6	0.6
W.V.T.R.(38⁰C & 90% RH)	F-1249	gm/m²/day (gm/100in²/day)	SD 1.0	HD 0.6	VHD 0.4
			0.06	0.04	0.03
O.T.R. (23⁰C & 0% RH)	D-3985	cc/m²/day (cc/100in²/day)	1.1	1.0	0.8
			0.07	0.06	0.05

Ref no QAD UFLL S/10 - MF 2/1

*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

Website: www.flexfilm.com