

**CHEMICALLY COATED METALLIZED POLYESTER FILMS
APPLICATION: PACKAGING, LAMINATION, DECORATIVE
AND OTHER SPECIALITY PRODUCTS**

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METAL SIDE
F-CHE-M	STANDARD	PLAIN	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER
F-CHC-M	STANDARD	CORONA	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER
F-CLR-C-M	OPTICALLY CLEAR	PLAIN	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER
F-CLR-C1-M	OPTICALLY CLEAR	CORONA	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER
F-XLR-C-M	EXTRA CLEAR	PLAIN	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER
F-XLR-C1-M	EXTRA CLEAR	CORONA	CO-PET COATING	TO BE SPECIFIED BY CUSTOMER

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 OPTICAL DENSITY*** (TOLERANCE : +/- 5%)	ND		2.2 - Normal Packaging Application			
	MD		2.4 - Barrier Packaging Application			
	HD	Gretag	2.6 - High Barrier Application			
	VHD		2.8 -3.0 - Special Application ** (* ** Customer to specify the value)			
GENERAL						
THICKNESS	Internal	Micron (Gauge)	12 48	23 92	36 144	
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	
GRAMMAGE	Internal	gm/m ²	16.8	32.2	50.4	
YIELD	Internal	m ² /kg	59.52	31.05	19.8	
COEFF OF STATIC FRICTION	(Max.) D-1894	-	0.8	0.8	0.8	
METAL SIDE			TI/TO	TI/TO	TI/TO	
MECHANICAL						
TENSILE STRENGTH AT BREAK (Min.)	MD*	D-882	Kg/cm ² (Psi)	1900	1900	1900
	TD*			2000	2000	2000
	MD*			27000	27000	27000
	TD*			28400	28400	28400
ELONGATION AT BREAK	MD	D-882	%	105	125	125
	TD			95	95	95
THERMAL						
LINEAR SHRINKAGE (Max.) (AT 105°C/30 Minute)	MD	D-1204	%	1.5	1.5	1.5
	TD			0.6	0.6	0.6
BARRIER PROPERTIES						
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m ² /day (gm/100in ² /day)	ND	MD	HD	VHD
			1.0 0.06	1.0 0.06	0.8 0.05	0.6 0.04
O.T.R. (23°C & 0%RH)	D-3985	cc/m ² /day (cc/100in ² /day)	1.3	1.1	1.0	0.8
			0.08	0.07	0.06	0.05

*** Customer to specify the value of OD required based on the application.

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*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

Information in this publication is believed to be accurate and is given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. Accordingly,UFlex gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law.UFlex reserves the right to change the technical data sheet at any time without prior information.



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ISO 9001 & 14001



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