

PRINTING AND LAMINATION GRADE METALLIZED POLYESTER FILMS
APPLICATION: PACKAGING, LAMINATION. DUCT INSULATION, DECORATIVE
AND OTHER SPECIALITY PRODUCTS

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METAL SIDE
F-MTG-M	STANDER	PLAIN	PLAIN / CORONA	TO BE SPECIFIED BY CUSTOMER
F-CLR-M	OPTICALLY CLEAR	PLAIN	PLAIN / CORONA	TO BE SPECIFIED BY CUSTOMER
F-XLR-M	EXTRA CLEAR	PLAIN	PLAIN / CORONA	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. Film is available in optical density ranging from 1.4 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) or on corona treated side (MT), as specified by the customer. The bond between the metal & film is 180-200gm/25mm (when metallized on plain side) or 250-300 gms/25mm (when metallized on corona side).

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE					
			10	12	15	19	23	
OPTICAL	LD		< 1.8 - Board Lamination Application					
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			10	12	15	19	23
THICKNESS	Internal	Micron	10	12	15	19	23
		(Gauge)	40	48	60	76	92
FILM DENSITY	D-1505	gm/cc	1.4	1.4	1.4	1.4	1.4
GRAMMAGE	Internal	gm/m ²	14	16.8	21.0	26.6	32.2
YIELD	Internal	m ² /kg	71.42	59.52	47.62	37.59	31.05
COEFF OF STATIC FRICTION	(Max.)	D-1894	-	0.8	0.8	0.8	0.8
METAL SIDE			TI/TO	TI/TO	TI/TO	TI/TO	TI/TO

MECHANICAL			10	12	15	19	23
TENSILE STRENGTH AT BREAK (Min.)	MD*		1900	1900	1900	1900	1900
	TD*		2000	2000	2000	2000	2000
	MD*	D-882	27000	27000	27000	27000	27000
	TD*		28400	28400	28400	28400	28400
ELONGATION AT BREAK	MD		105	105	105	120	125
	TD	D-882	95	95	95	95	95

THERMAL			10	12	15	19	23
LINEAR SHRINKAGE (Max.) (AT 105°C/30 Minute)	MD		1.5	1.5	1.5	1.5	1.5
	TD	D-1204	0.6	0.6	0.6	0.6	0.6

BARRIER PROPERTIES			ND	MD	HD	VHD
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m ² /day	1.0	1.0	0.8	0.6
		(gm/100in ² /day)	0.06	0.06	0.05	0.04
O.T.R. (23°C & 0%RH)	D-3985	cc/m ² /day	1.3	1.1	1.0	0.8
		(cc/100in ² /day)	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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