

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

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METAL SIDE
F-AUU-M	STANDARD	PLAIN	ACRYLIC	MET ON PLAIN SIDE
F-AUT-M	STANDARD	CORONA	ACRYLIC	MET ON CORONA SIDE
F-CLR-A-M	OPTICALLY CLEAR	PLAIN	ACRYLIC	MET ON PLAIN SIDE
F-CLR-A1-M	OPTICALLY CLEAR	CORONA	ACRYLIC	MET ON CORONA SIDE
F-XLR-A-M	EXTRA CLEAR	PLAIN	ACRYLIC	MET ON PLAIN SIDE
F-XLR-A1-M	EXTRA CLEAR	CORONA	ACRYLIC	MET ON CORONA SIDE

**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 proprietary coated layer whereas other side is either plain or corona treated( see grades table above) corona treated. 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) 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),250-300 gms/25mm (when metallized on corona side), Film is suitable for flexible packaging including pasteurization application.

PROPERTIES	TEST METHO	UNIT	TYPICAL VALUE		
			12	23	36
OPTICAL	ND		2.2 - Normal Packaging Application		
	MD		2.4 - Barrier Packaging Application		
OPTICAL DENSITY*** (TOLERANCE : +/- 5%)	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 <sup>2</sup>	16.8	32.2	50.4
YIELD	Internal	m <sup>2</sup> /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 <sup>2</sup>  (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							
			ND	MD	HD	VHD	
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m <sup>2</sup> /day	1.0	1.0	0.8	0.6	
		(gm/100in <sup>2</sup> /day)	0.06	0.06	0.05	0.04	
O.T.R. (23°C & 0%RH)	D-3985	cc/m <sup>2</sup> /day	1.3	1.1	1.0	0.8	
		(cc/100in <sup>2</sup> /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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