

TECHNICAL DATA SHEET

FLEX MET PROTECT™ (PLASMA TREATED METALLIZED POLYESTER FILM)

CHEMICALLY COATED PLASMA METALLIZED POLYESTER FILMS (F-CHE-PZ)

APPLICATION: PACKAGING, LAMINATION, DUCT INSULATION AND OTHER SPECIALITY PRODUCTS

FLEX MET PROTECT™ F-CHE-PZ grade of films is PLASMA TREATED METALLIZED polyester film specially designed to meet stringent requirements of barrier properties. It is available with plasma metallization on chemically coated side (MC) of F-CHE and other side plain(UT) or plasma metallization on plain side (MU) of F-CHE and other side coated (CH), as specified by the customer.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE				
			10	12	15	19	23
OPTICAL							
OPTICAL DENSITY** (TOLERANCE : +/- 5%)	Gretag	Medium Optical Density (MD) High Optical Density (HD)			2.4 2.6 - 3.0		
GENERAL							
THICKNESS	Internal	Micron (Gauge)	10 40	12 48	15 60	19 76	23 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	0.8
MECHANICAL							
TENSILE STRENGTH AT BREAK (Min.)	MD* TD* D-882	Kg/cm ² (Psi)			1900 2000		
ELONGATION AT BREAK (Min.)	MD TD D-882	%			105 95		
THERMAL							
LINEAR SHRINKAGE (Max.) (AT 105 ⁰ C/30 Minute)	MD TD D-1204	%			1.5 0.6		
BARRIER PROPERTIES							
W.V.T.R.(38 ⁰ C & 90%RH)	F-1249	gm/m ² /day (gm/100in ² /day)			MD 0.6 0.04		HD 0.5 0.03
O.T.R. (23 ⁰ C & 0%RH)	D-3985	cc/m ² /day (cc/100in ² /day)			0.6 0.04		0.5 0.03
METAL BOND STRENGTH (143 ⁰ C , 4 sec., 4.2 bar) With Inomer Poly							
	Internal	gm/25mm			> 550		

** 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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