

CHEMICALLY COATED & CORONA TREATED PLASMA METALLIZED POLYESTER FILMS (F-CHC-PZ)

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

FLEX MET PROTECT™ F-CHC-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-CHC and other side corona treated (CT) or plasma metallization on corona treated side (MT) of F-CHC 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)	2.4				
		High Optical Density (HD)	2.6 - 3.0				
GENERAL							
THICKNESS	Internal	Micron	10	12	15	19	23
		(Gauge)		40	48	60	76
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*	D-882	Kg/cm ²	1900			
	TD*			2000			
	MD*			27000			
	TD*			(Psi)	28400		
ELONGATION AT BREAK (Min.)	MD	D-882	%	105			
	TD			95			
THERMAL							
LINEAR SHRINKAGE (Max.) (AT 105°C/30 Minute)	MD	D-1204	%	1.5			
	TD			0.6			
BARRIER PROPERTIES			MD	HD			
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m ² /day	< 0.5	< 0.4			
		(gm/100in ² /day)	< 0.032	< 0.026			
O.T.R. (23°C & 0%RH)	D-3985	cc/m ² /day	< 0.5	< 0.4			
		(cc/100in ² /day)	< 0.032	< 0.026			
METAL BOND STRENGTH (143 °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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