

PLASMA METALLIZED PRINTING AND LAMINATION GRADE POLYESTER FILMS (F-MTG-PZ)

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

FLEX MET PROTECT™ F-MTG-PZ grade of films are PLASMA TREATED METALLIZED polyester films specially designed to meet stringent requirements of barrier properties. It is available with plasma metallization on treated side (MT) of F-MTG and other side plain (UT) or plasma metallization on plain side (MU) of F-MTG, other side corona (CT), 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	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.)	D-882	Kg/cm ²	MD*	1900			
			TD*	2000			
		(Psi)	MD*	27000			
			TD*	28400			
ELONGATION AT BREAK (Min.)	D-882	%	MD*	105			
			TD*	95			
THERMAL							
LINEAR SHRINKAGE (Max.) (AT 105 ⁰ C/30 Minute)	D-1204	%	MD*	1.5			
			TD*	0.6			
BARRIER PROPERTIES							
W.V.T.R.(38 ⁰ C & 90%RH)	F-1249	gm/m ² /day (gm/100 ² /day)	MD	0.6			HD
			HD	0.03			0.5
O.T.R. (23 ⁰ C & 0%RH)	D-3985	cc/m ² /day (cc/100in ² /day)	MD	0.6			HD
			HD	0.04			0.03
METAL BOND STRENGTH							
(143 ⁰ C, 4 sec., 4.2 bar) With Inomer Poly	Internal	gm/25mm	>400				

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

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*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

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