

**LIDDING GRADE METALLIZED POLYESTER FILMS (F-IST-M)**

**APPLICATION: LIDDING APPLICATION**

**FLEXMETPROTECT™** F-IST-M grade of films are metallized polyester films having excellent barrier properties supported with excellent Lidding properties. They are widely accepted for all kinds of lidding applications, available in optical density ranging from 2.2 to 2.4. This grade of film is available in Metallized on corona (MT) & other side plain. The bond between the metal & film when metallised on corona side comes to be 250-300gm/25mm.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE			
			12	23	36	
<b>OPTICAL</b>						
OPTICAL DENSITY (TOLERANCE : +/- 5%)	Gretag	-		2.2		
<b>GENERAL</b>						
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	19.84	
COEFF OF STATIC FRICTION METAL SIDE	(Max.) D-1894	-	0.8 TI/TO	0.8 TI/TO	0.8 TI/TO	
<b>MECHANICAL</b>						
TENSILE STRENGTH AT BREAK (Min.)	MD*	D-882	Kg/cm <sup>2</sup>	1700	1700	1700
	TD*			2000	2000	2000
	MD*	D-882	(Psi)	24150	24150	24150
	TD*			28400	28400	28400
ELONGATION AT BREAK	MD	D-882	%	125	125	125
	TD			90	90	90
<b>THERMAL</b>						
LINEAR SHRINKAGE (Max.) (AT 105 <sup>o</sup> C/30 Minute)	MD	D-1204	%	1.5	1.5	1.5
	TD			0.6	0.6	0.6
<b>BARRIER PROPERTIES</b>						
W.V.T.R.(38 <sup>o</sup> C & 90%RH)	F-1249	D-3985	gm/m <sup>2</sup> /day	1.0	0.9	0.9
			(gm/100in <sup>2</sup> /day)	0.064	0.058	0.058
O.T.R. (23 <sup>o</sup> C & 0%RH)	D-3985	D-3985	cc/m <sup>2</sup> /day	1.0	0.9	0.9
			(cc/100in <sup>2</sup> /day)	0.064	0.058	0.058

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\*MD = MACHINE DIRECTION \*TD = TRANSVERSE DIRECTION

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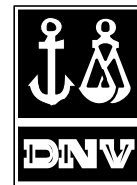
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