



FLEXMETPROTECT™ F-MTG-PZ

Technical Data Sheet

(PLASMA TREATED METALLIZED POLYESTER FILM)

Product Description:

FLEX METPROTECT™ F-MTG-PZ is a plasma treated metallized polyester film metallized on corona treated side and other side untreated surface.

Key Features:

Excellent Barrier properties
Improved metal bond adhesion
Good Machinability

Applications:

Packaging and Lamination
Duct Insulation
Decorative application
High Barrier multilayer laminate

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

APPLICATION: PACKAGING, LAMINATION. DUCT INSULATION AND OTHER SPECIALTY 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. The bond between the metal & film is 150-200 gm/25mm (when metallized on plain side) & 200-250 gms/25mm (when metallized on corona side).

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE				
			10	12	15	19	23
OPTICAL DENSITY** (TOLERANCE : +/- 5%)	X-rite		HD		2.5		
			VHD		2.8		
** Customer to specify the value of OD required based on the application.							
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
		in ² /lb	50318	41934	33550	26483	21876
COEFF OF STATIC FRICTION	D-1894	-	0.8	0.8	0.8	0.8	0.8
TENSILE STRENGTH AT BREAK	D-882	MD*	1900				
		TD*	2000				
		MD*	27000				
		TD*	28500				
ELONGATION AT BREAK	D-882	MD*	105				
		TD*	95				
LINEAR SHRINKAGE (AT 105 ⁰ C/30 Minute)	D-1204	MD*	1.5				
		TD*	0.6				
W.V.T.R.(38 ⁰ C & 90%RH)	F-1249	gm/m ² /day	HD		VHD		
		(gm/100in ² /day)	0.4		0.25		
O.T.R. (23 ⁰ C & 0%RH)	D-3985	cc/m ² /day	0.03		0.02		
		(cc/100in ² /day)	0.6		0.5		
			0.04		0.03		

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*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

HD - High Density VHD - Very High Density

STORAGE & HANDLING

FLEXMETPROTECT™ need to be stored in a closed warehouse and should not be exposed to direct sunlight or light sources and from humidity. It is recommended to store below 35° C in dry place. FLEXMETPROTECT™ is suitable for use within 6 months from date of manufacturing, only if stored in recommended condition.

FOOD CONTACT

FLEXMETPROTECT™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

DISCLAIMER

It is the responsibility of our customer to determine that their use of our product(s) is safe, lawful, and technically suitable in their intended applications. The Values given in the technical data sheet represent typical values based on the best of our knowledge as on date when the data was compiled. It is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability / compatibility in all respects. Flex Gives no warranty or accept liability for any loss and fitness of the product for any specific purpose. Flex reserves the right to change the technical data sheet at any time for enhancing the quality of the products without prior information.

**TDS issued on 11-02-2015. All previous version of this grade are invalid.

Website: www.flexfilm.com