



# FLEXMETPROTECT™ F-CHC-PZ

## Technical Data Sheet

(PLASMA TREATED METALLIZED POLYESTER FILM)

### Product Description:

FLEXMETPROTECT™ F-CHC-PZ is a plasma treated metallized film. It has Aluminum deposit layer on one side and other side standard surface.

### Key Features:

Excellent Barrier properties  
Excellent metal bond strength  
Good Machinability & handling properties

### Applications:

Packaging and Lamination  
Duct Insulation  
Multi high barrier laminate

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

APPLICATION: PACKAGING, LAMINATION. DUCT INSULATION AND OTHER SPECIALTY 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 DENSITY** (TOLERANCE : +/- 5%) ** Customer to specify the value of OD required based on the application.	X-rite	-	HD		2.5		
			VHD		2.8		
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 <sup>2</sup>	14	16.8	21.0	26.6	32.2
YIELD	Internal	m <sup>2</sup> /kg in <sup>2</sup> /lb	71.42 50318	59.52 41934	47.62 33550	37.59 26483	31.05 21876
COEFF OF STATIC FRICTION	D-1894	-	0.8	0.8	0.8	0.8	0.8
TENSILE STRENGTH AT BREAK	MD*	D-882	Kg/cm <sup>2</sup>	1900			
	TD*			2000			
ELONGATION AT BREAK	MD*	D-882	(Psi)	27000			
	TD*			28500			
LINEAR SHRINKAGE (Max.) (AT 105°C/30 Minute)	MD	D-1204	%	105			
	TD			95			
W.V.T.R.(38°C & 90%RH)	F-1249	gm/m <sup>2</sup> /day (gm/100in <sup>2</sup> /day)	HD		VHD		
			0.4		0.25		
O.T.R. (23°C & 0%RH)	D-3985	cc/m <sup>2</sup> /day (cc/100in <sup>2</sup> /day)	0.03		0.02		
			0.6		0.5		
METAL BOND STRENGTH	Internal	gm/25mm	> 550 ( metallized on chemically coated side)				
			> 200 ( metallized on corona treated side)				

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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](http://www.flexfilm.com)