

**Technical Data Sheet****(METALLIZED POLYESTER FILM)****Product Description:**

Low optical density polyester film having metal deposit layer on one side and other side untreated or corona treated

Key Features:

Excellent Machinability & handling properties

Applications:

Flexible Packaging
Conversion processes
Lamination for Electronic goods packaging

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METALLIZATION SIDE
F-EGP-M	STANDARD	PLAIN	PLAIN / CORONA	Metallization will be either side (i.e. On corona or Untreated side) TO BE SPECIFIED BY CUSTOMER

FLEXMETPROTECT™ above grade of film is metallised polyester film. The metallization is available on plain side (MU) or on corona treated side (MT) , as described by the customer.

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE						
			9	10	12	15	19	23	
OPTICAL DENSITY (TOLERANCE : +/- 0.02%)			0.4 for Electronic goods packaging application						
THICKNESS	Internal	Micron (Gauge)	9 36	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	1.4	
GRAMMAGE	Internal	gm/m ²	12.6	14	16.8	21.0	26.6	32.2	
YIELD	Internal	m ² /kg in ² /lb	79.36 55912	71.42 50318	59.52 41934	47.62 33550	37.59 26483	31.05 21876	
COEFF OF KINETIC FRICTION METAL WOUND	D-1894	-	0.7 # MI/MO	0.7 MI/MO	0.7 MI/MO	0.7 MI/MO	0.7 MI/MO	0.7 MI/MO	
TENSILE STRENGTH AT BREAK	MD*	Kg/cm ²	1900	1900	1900	1900	1900	1900	
	TD*		2000	2000	2000	2000	2000	2000	
	MD*		(Psi)	27000	27000	27000	27000	27000	27000
	TD*			28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK	MD	D-882	%	90	100	105	105	110	115
	TD			80	80	85	85	85	90
LINEAR SHRINKAGE (Max.) (AT 105 ⁰ C/30 Minute)	MD	D-1204	%	1.5	1.5	1.5	1.5	1.5	1.5
	TD			0.6	0.6	0.6	0.6	0.6	0.6
Surface Tension (Metal side)		D-2578	Dyne/cm	50	50	50	50	50	50

Ref no QAD UFLI S/15 - MF17/1

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION
MI = Metal wound inside MO = Metal wound out side

STORAGE & HANDLING

FLEXMETPROTECT™ need to be stocked well packed in its original packing inside a closed warehouse maintained at low relative humidity (50% or less) conditions. The packing should be open when the material is intended for use. Metallized film should not be exposed to direct sunlight and the sources of humidity. It is recommended to store below 35° C in dry place. FLEXMETPROTECT™ if stored in recommended condition is suitable for use within 45 days from date of manufacturing.

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