



**Product Description:**

Base polyester having one side chemically coated and other side Untreated or Corona, It can be metallized on either side as per specified by the customer requirements.

**Key Features:**

Excellent Gloss  
Good Barrier Properties  
Excellent Metal Bond strength  
Excellent Machinability & handling properties

**Applications:**

Flexible Packaging  
Lamination  
Decorative application

FLEXMETPROTECT™ GRADE	BASE FILM	ONE SURFACE	OTHER SURFACE	METALISED SIDE
F-CHE-M	STANDARD	PLAIN	CO-PET COATING	Metallization will be either side ( i.e. On Chemically coat / UT or Corona ) <b>TO BE SPECIFIED BY THE CUSTOMER</b>
F-CHC-M	STANDARD	CORONA	CO-PET COATING	
F-CLR-C-M	OPTICALLY CLEAR	PLAIN	CO-PET COATING	
F-CLR-C1-M	OPTICALLY CLEAR	CORONA	CO-PET COATING	
F-XLR-C-M	EXTRA CLEAR	PLAIN	CO-PET COATING	
F-XLR-C1-M	EXTRA CLEAR	CORONA	CO-PET COATING	

**FLEXMETPROTECT™ above grades** of films are metallised polyester film. The film have superior gloss when metallized on optically clear base film and further improved when metallized on extra clear base film The film is one side chemically coated layer whereas other side is either plain or corona treated( see grades table above) . Film is available in optical density ranging from 2.0 to 3.0.The wide range of optical densities give choice to the customer to use the product for diverse range of applications. The metallization is available on plain side (MU),corona treated side (MT) or on coated side (MC), as specified by the customer. The bond between the metal & film is 100-150gm/25mm (when metallized on plain side),130-180 gms/25mm (when metallized on corona side) & 500+gm/25mm (when metallized on chemically coated side) .(The film is not recommended for laminates undergoing high temperature applications as boiling, pasteurization, sterilization, retort, hot oven or microwaves.)

PROPERTIES	TEST METHOD (ASTM)	UNIT	TYPICAL VALUE											
			8	9	10	12	15	19	23	36	50			
<b>OPTICAL DENSITY***</b> (TOLERANCE : +/- 5%) ( *** Customer to specify the OD value as per their application )			<b>SD</b>		<b>2.2 - Barrier Packaging Application</b>									
			<b>HD</b>		<b>2.5 - High Barrier Application</b>									
			<b>VHD</b>		<b>2.8 - Special Application</b>									
<b>THICKNESS</b>	<b>Internal</b>	<b>Micron (Gauge)</b>	8	9	10	12	15	19	23	36	50			
<b>FILM DENSITY</b>	<b>D-1505</b>	<b>gm/cc</b>	32	36	40	48	60	76	92	144	200			
<b>GRAMMAGE</b>	<b>Internal</b>	<b>gm/m<sup>2</sup></b>	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4			
<b>YIELD</b>	<b>Internal</b>	<b>m<sup>2</sup>/kg</b>	11.2	12.6	14.0	16.8	21.0	26.6	32.2	50.4	70			
<b>COEFF OF KINETIC FRICTION</b>	<b>D-1894</b>	<b>in<sup>2</sup>/lb</b>	89.28	79.36	71.42	59.52	47.62	37.59	31.05	19.84	14.28			
<b>METAL WOUND</b>		<b>-</b>	62901	55912	50318	41934	33550	26483	21876	13978	10060			
			# MI/MO	# MI/MO	# MI/MO	# MI/MO	# MI/MO	# MI/MO	# MI/MO	# MI/MO	# MI/MO			
<b>TENSILE STRENGTH AT BREAK</b>	<b>MD*</b>	<b>D-882</b>	<b>Kg/cm<sup>2</sup></b>	1900	1900	1900	1900	1900	1900	1900	1750	1750		
	<b>TD*</b>			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
	<b>MD*</b>			<b>(Psi)</b>	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
	<b>TD*</b>				28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
<b>ELONGATION AT BREAK</b>	<b>MD</b>	<b>D-882</b>	<b>%</b>	100	100	100	105	105	110	115	120	125		
	<b>TD</b>			80	80	80	85	85	85	90	90	90		
<b>LINEAR SHRINKAGE (Max.)</b> (AT 105°C/30 Minute)	<b>MD</b>	<b>D-1204</b>	<b>%</b>	1.5										
	<b>TD</b>			0.6										
<b>W.V.T.R.(38°C &amp; 90%RH)</b>	<b>F-1249</b>	<b>gm/m<sup>2</sup>/day</b> (gm/100in <sup>2</sup> /day)	<b>SD</b>	<b>HD</b>			<b>VHD</b>							
			1.0	0.6			0.4							
<b>O.T.R. (23°C &amp; 0%RH)</b>	<b>D-3985</b>	<b>cc/m<sup>2</sup>/day</b> (cc/100in <sup>2</sup> /day)	0.06	0.04			0.03							
			1.1	1.0			0.8							
			0.07	0.06			0.05							

Ref no QAD UFLI S/14 - MF 2/1

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

# MI = Metal wound inside, MO = Metal wound out side

SD- Standard Density, 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)