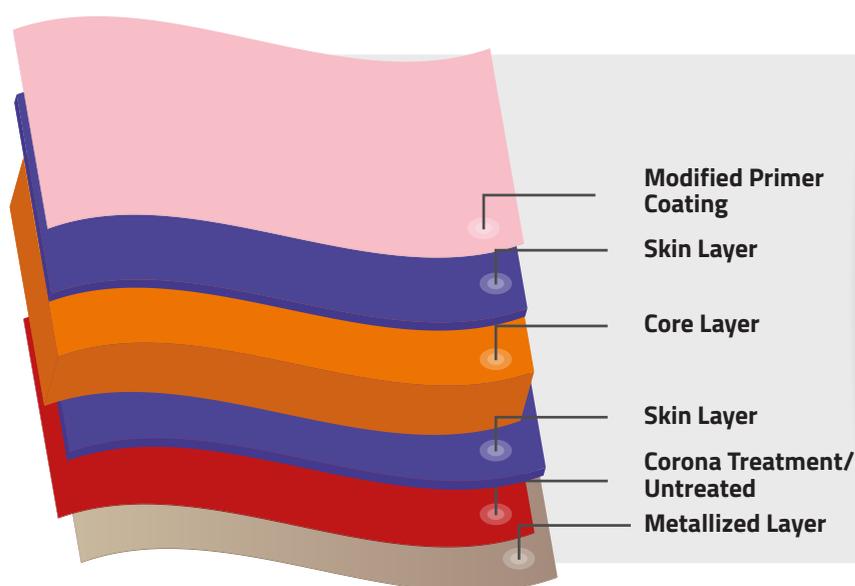


F-ATU-M, F-ATT-M, F-CLR-T1-M , F-CLR-T2-M, F-XLR-T1-M, F-XLR-T2-M

METALLIZED MODIFIED PRIMER COATED FILMS

Metallized Modified Primer Coated Films are BOPET films with one side Modified Primer Coated and the other side Untreated or Corona Treated. The films have superior gloss when metallized on optically clear base film, and further improved gloss when metallized on extra clear base film (see grades table). These films are available in optical densities ranging from 1.4 to 3.0; this wide range gives options to the customer to use the product for a diverse range of applications. The metallization is available on the Untreated surface (MU) or the Corona Treated surface (MT) as specified by the customer. The bond between the metal & film is a minimum of 100 gm/25mm when metallized on the Untreated surface & a minimum of 130 gm/25mm when metallized on the Corona Treated surface.



FILM STRUCTURE

KEY FEATURES:

- Excellent gloss
- Good barrier properties
- Excellent machinability & handling properties

APPLICATION:

- Flexible Packaging
- Lamination
- Decorative applications

FLEXMETPROTECT™ GRADE		BASE FILM	ONE SURFACE	OTHER SURFACE		METALIZATION SIDE	
F-ATU-M		STANDARD	PLAIN	MODIFIED PRIMER		Metallization will be on either Untreated or Corona Treated side. TO BE SPECIFIED BY THE CUSTOMER.	
F-ATT-M		STANDARD	CORONA	MODIFIED PRIMER			
F-CLR-T1-M		OPTICALLY CLEAR	CORONA	MODIFIED PRIMER			
F-CLR-T2-M		OPTICALLY CLEAR	PLAIN	MODIFIED PRIMER			
F-XLR-T1-M		EXTRA CLEAR	CORONA	MODIFIED PRIMER			
F-XLR-T2-M		EXTRA CLEAR	PLAIN	MODIFIED PRIMER			
PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES			
OPTICAL DENSITY*** (TOLERANCE: +/- 5%) (***Customer to specify the OD value as per their specification.)				Standard Density (SD) 2.2 - Barrier Packaging Application High Density (HD) 2.5 - High Barrier Application Very High Density (VHD) 2.8 - Special Application			
THICKNESS		Internal	Micron	12	23	31	36
			(Gauge)	48	92	124	144
YIELD		Internal	m ² / kg	59.52	31.05	23.04	19.84
			in ² /lb	41934	21876	16225	13978
SURFACE TENSION (min) ★ (Modified Primer Coated side)		ASTM D-2578	dyne/cm	52			
COF (max) (One side to the other side)		ASTM D-1894	-	0.70			
TENSILE STRENGTH AT BREAK (min)		ASTM D-882	kg/cm ²	1900	1900	1900	1750
				2000	2000	2000	2000
			(Psi)	27000	27000	27000	25000
				28500	28500	28500	28500
ELONGATION AT BREAK (min)		ASTM D-882	%	105	115	120	120
				85	90	90	90
LINEAR SHRINKAGE (max) (30 Minute at 105°C)		ASTM D-1204	%	1.5			
				0.6			
GLOSS (min) (Metallized surface) (Bare surface)		ASTM D-2457	-	STANDARD	OPTICALLY CLEAR	EXTRA CLEAR	
				800	820	850	
				600	700	750	
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m ² /day (gm/100 in ² /day)	SD	HD	VHD	
				1.0	0.6	0.4	
				0.06	0.04	0.03	
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m ² /day (cc/100 in ² /day)	1.1	1.0	0.8	
				0.07	0.06	0.05	

★ This dyne value is applicable only for NAFTA, SA, and Poland manufacturing plants.

STORAGE & HANDLING

FLEXMETPROTECT™ needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, FLEXMETPROTECT™ is suitable for use within 180 days from the date of shipment.

FOOD CONTACT

FLEXMETPROTECT™ complies with EU and FDA regulations on plastic materials used for food grade application. Specific documents and SDS are available on request.

DISCLAIMER

It is the responsibility of our customer to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data 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 provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.