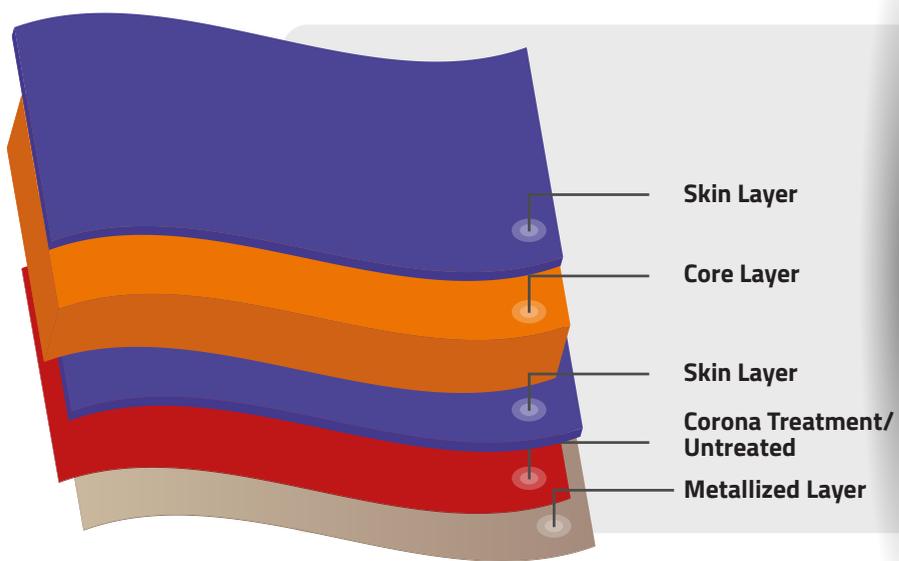


F-MTG-M, F-CLR-M, F-XLR-M METALLIZED FILMS

Metallized Films are BOPET films with either both sides Untreated or one side Untreated with the other side 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 on 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
- Duct insulation
- Lamination
- Decorative applications

FLEXMETPROTECT™ GRADE		BASE FILM	ONE SURFACE	OTHER SURFACE	METALIZATION SIDE									
F-MTG-M		STANDARD	PLAIN	CORONA / PLAIN	Metallization will be on either the Untreated or Corona Treated surface. TO BE SPECIFIED BY THE CUSTOMER.									
F-CLR-M		OPTICALLY CLEAR	PLAIN	CORONA / PLAIN										
F-XLR-M		EXTRA CLEAR	PLAIN	CORONA / PLAIN										
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	9	10	11	12	15	19	21	23	36	50	
			(Gauge)	36	40	44	48	60	76	84	92	144	200	
YIELD		Internal	m ² / kg	79.36	71.42	64.93	59.52	47.62	37.59	34.01	31.05	19.84	14.28	
			in ² /lb	55912	50318	45745	41934	33550	26483	23951	21876	13978	10060	
SURFACE TENSION (min) # ★ (Corona surface)		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	1900	1900	1900	1900	1900	1750	1750	
				2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
			(Psi)	27000	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
				28500	28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)		ASTM D-882	%	90	100	100	105	105	110	110	115	120	125	
				80	80	85	85	85	85	85	90	90	95	
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				
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.
The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

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.