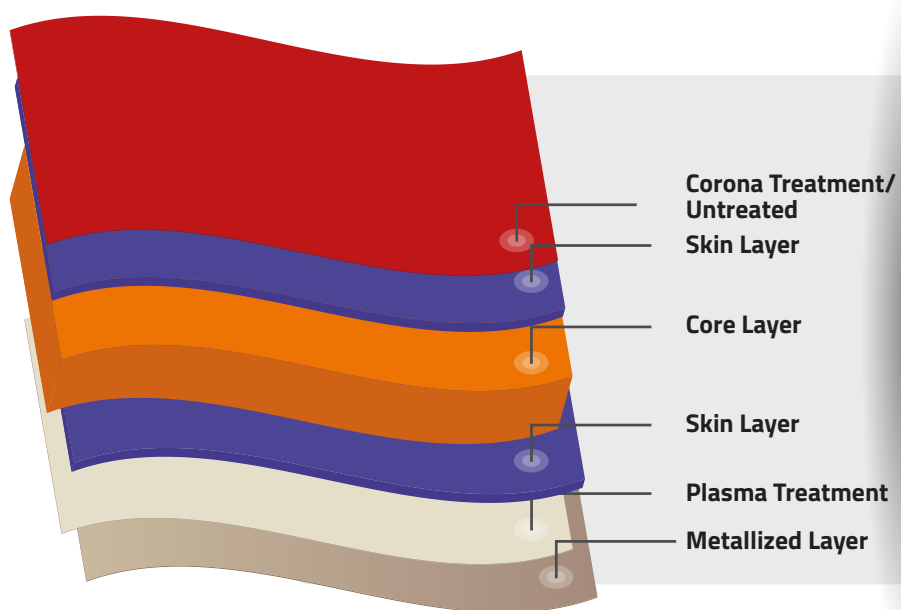


F-MTG-PZ-M, F-CLR-PZ-M, F-XLR-PZ-M STANDARD PLASMA TREATED METALLIZED FILMS

Standard Plasma Treated Metallized Films are BOPET films with one side Plasma Treated and the other side either Corona Treated or Untreated. Plasma Treated Metallized films are specially designed to meet the stringent requirements of barrier properties. 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). The 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 Plasma (MZ) Treated surface, with a minimum bond strength between the metal and film of 150gm/25mm.



FILM STRUCTURE

KEY FEATURES:

- Excellent barrier properties
- Improved metal bond adhesion
- Good machinability

APPLICATION:

- Flexible packaging
- Duct insulation
- High barrier multilayer laminate
- Decorative applications

FLEXMETPROTECT™ GRADE		BASE FILM	ONE SURFACE	OTHER SURFACE		METALIZATION SIDE							
F-MTG-PZ-M		STANDARD	PLASMA	CORONA / PLAIN		Metallization will be on the Plasma Treated surface.							
F-CLR-PZ-M		OPTICALLY CLEAR	PLASMA	CORONA / PLAIN									
F-XLR-PZ-M		EXTRA CLEAR	PLASMA	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	23	36	50	
			(Gauge)	36	40	44	48	60	76	92	144	200	
YIELD		Internal	m ² / kg	79.36	71.42	64.93	59.52	47.62	37.59	31.05	19.84	14.28	
			in ² /lb	55912	50318	45745	41934	33550	26483	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	1750	1750	
				2000	2000	2000	2000	2000	2000	2000	2000	2000	
			(Psi)	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
				28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)		ASTM D-882	%	90	100	100	105	105	110	115	120	125	
				80	80	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.