

# F-EXC-M

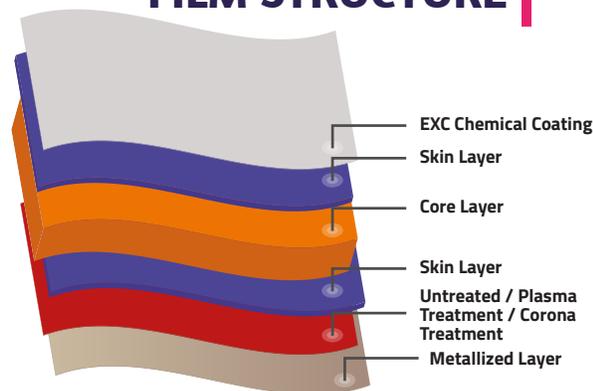
## METALLIZED DIRECT EXTRUSION FILM

Base polyester is one side EXC Chemical Coated and other side either Untreated Plasma Treated or Corona Treated. F-EXC-M is a metallized BOPET film available in optical densities ranging from 2.2 to 2.8 which gives the customer a diverse range of application options. The metallization is available on the Untreated surface (MU) giving a bond strength between the metal and the film a minimum of 100gm/25mm, on the Plasma Treated surface (MZ) giving a bond strength between the metal and the film a minimum of 150gm/25mm, or on the Corona treated surface (MT) giving a bond strength between the metal and the film a minimum of 130gm/25mm.

### KEY FEATURES:

- No solvent emissions or residuals during extrusion coating
- No additional priming needed prior to extrusion

## FILM STRUCTURE



### APPLICATION:

- Film is designed for direct extruded polyethylene adhesion without the need for 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	36
			(Gauge)	48	92	144
YIELD	Internal		m <sup>2</sup> / kg	59.52	31.05	19.84
			in <sup>2</sup> / lb	41934	21876	13978
SURFACE TENSION (min) ★ (EXC Chemical Coated surface)		ASTM D-2578	dyne/cm	38		
COF (max) (One side to the other)		ASTM D-1894	-	0.70		
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm <sup>2</sup>	1900	1900	1750
	TD			2000	2000	2000
	MD		(Psi)	27000	27000	25000
	TD			28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	105	115	120
	TD			85	90	90
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	ASTM D-1204	%	1.5		
	TD			0.6		
MVTR (38°C & 90% RH) (typical)		ASTM F-1249	gm/m <sup>2</sup> /day	SD	HD	VHD
			(gm/100 in <sup>2</sup> /day)	1.0	0.6	0.4
OTR (23°C & 0% RH) (typical)		ASTM D-3985	cc/m <sup>2</sup> /day	0.06	0.04	0.03
			(cc/100 in <sup>2</sup> /day)	1.1	1.0	0.8
				0.06	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

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