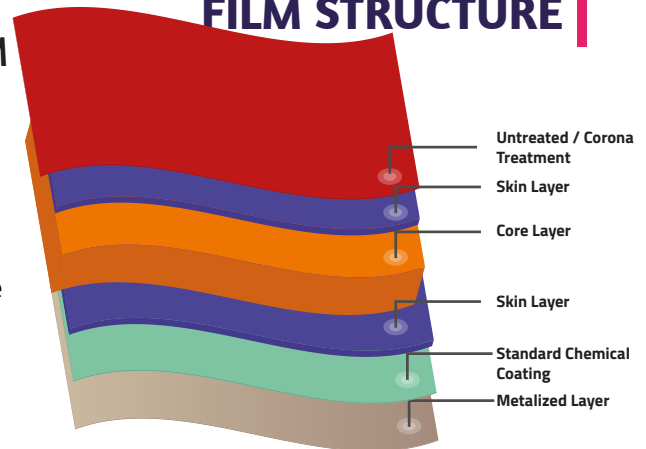# F-FCU-M
STANDARD CHEMICAL COATED METALLIZED FILM

F-FCU-M is a metallized BOPET film. The film is Standerd chemical coated on one surface and Untreated or corona treated on the other side. The film is avaliable with optical density running from 1.4 to 3.0 giving the customer the ability to use for a diverse range of applications. The metallization is available on Standerd Chemical coatde surface (MC) giving a bond strength between the metal and the film is minimum 600gm/25mm. The film is recommended for laminates undergoing for hot fill applications such as ketchup, mayonnaise etc.

KEY FEATURES:

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

FILM STRUCTURE

Untreated / Corona Treatment
Skin Layer
Core Layer
Skin Layer
Standard Chemical Coating
Metalized Layer

APPLICATION:

- Flexible Packaging
- Lamination
- Decorative application

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES				
OPTICAL DENSITY*** (TOLERANCE : +/- 5%) (*** Customer to specify the O.D. value as per their application)				Standard Density (SD) 2.2 - Normal Packaging Application High Density (HD) 2.5 - High Barrier Application Very High Density (VHD) 2.8 - Special Application				
THICKNESS		Internal	Micron	8	10	12	23	36
			(Gauge)	32	40	48	92	144
YIELD		Internal	m² / kg	89.28	71.42	31.05	31.05	19.84
			in² /lb	62901	50318	41934	21876	13978
COF (max) One side to the other side		ASTM D-1894	-	0.70	0.70	0.70	0.70	0.70
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm²	1900	1900	1900	1900	1750
	TD			2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	25000
	TD			28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	100	100	105	115	120
	TD			80	80	85	90	95
LINEAR SHRINKAGE (max) (30 Minute at 105°C)	MD	ASTM D-1204	%	1.5				
	TD			0.6				
WVTR (38°C & 90%RH) (typical)		ASTM F-1249		SD		HD		VHD
			gm/m²/day	1.0		0.6		0.4
			(gm/100in²/day)	0.06		0.04		0.03
OTR (23°C & 0%RH) (typical)		ASTM D-3985	cc/m²/day	1.1		1.0		0.8
			(cc/100in²/day)	0.07		0.06		0.05

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.

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🌐 www.flexfilm.com

Ref. No: QAD UFLI S/20 - MF9/1
** TDS issued on 01-04-2020. All previous version of this grade are invalid.