

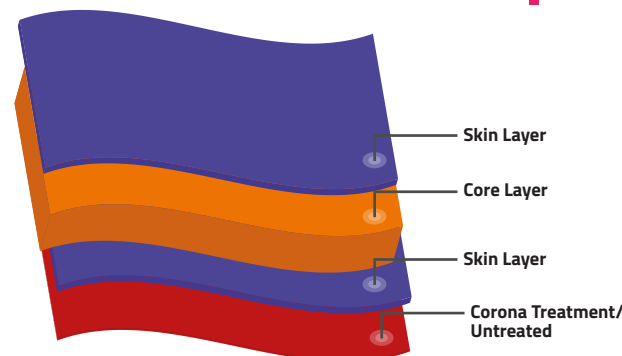
# F-MTG METALLIZING GRADE FILM

F-MTG is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated.

## KEY FEATURES:

- Excellent clarity
- High surface energy on treated side gives good metal adhesion
- Excellent machinability & handling properties
- Very good gloss after metallization
- Corona treatment improves bonding

## FILM STRUCTURE



## APPLICATION:

- Vacuum metallization
- Used as a barrier substrate in laminate after metallization

PROPERTIES		TEST METHOD	UNIT	TYPICAL VALUES									
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 <sup>2</sup> / kg		79.36	71.42	64.93	59.52	47.62	37.59	31.05	19.84	14.28	
		in <sup>2</sup> / lb		55912	50318	45745	41934	33550	26483	21876	13978	10060	
SURFACE TENSION (min) # (Corona side)		ASTM D-2578	dyne/cm	52									
COF (max) (Corona Treated to Untreated) (Untreated to Untreated)		ASTM D-1894	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.45	0.45	
				0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
HAZE (max)		ASTM D-1003	%	4.0	4.0	4.0	4.0	4.5	4.5	5.0	5.0	6.0	
TENSILE STRENGTH AT BREAK (min)	MD	ASTM D-882	kg/cm <sup>2</sup>	1900	1900	1900	1900	1900	1900	1900	1750	1750	
	TD			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	MD		(Psi)	27000	27000	27000	27000	27000	27000	27000	27000	25000	25000
	TD			28500	28500	28500	28500	28500	28500	28500	28500	28500	28500
ELONGATION AT BREAK (min)	MD	ASTM D-882	%	90	100	100	105	105	110	115	120	125	
	TD			80	80	85	85	85	85	85	90	90	95
LINEAR SHRINKAGE (max) (30 Minute at 150°C)	MD	ASTM D-1204	%	3.0									
	TD			1.0									
MVTR (38°C & 90% RH) (typical)	ASTM F-1249	gm/m <sup>2</sup> /day		50	50	45	45	40	35	30	20	16	
		(gm/100 in <sup>2</sup> /day)		3.2	3.2	2.9	2.9	2.6	2.3	2.0	1.3	1.0	
OTR (23°C & 0% RH) (typical)	ASTM D-3985	cc/m <sup>2</sup> /day		155	155	130	130	110	90	80	70	45	
		(cc/100 in <sup>2</sup> /day)		10.1	10.1	8.5	8.5	7.1	5.8	5.2	4.5	2.9	

# The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

### STORAGE & HANDLING

FLEXPET™ 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, FLEXPET™ is suitable for use within 270 days from the date of shipment.

### FOOD CONTACT

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

### DISCLAIMER

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