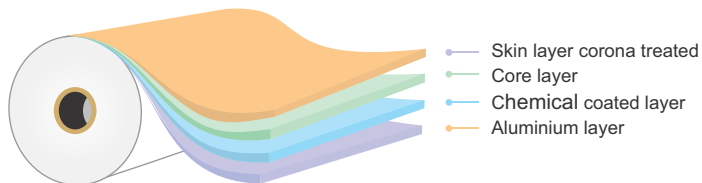


BOPET Metallized Film

MAF-1 (MO)

Typical Values

Structure



Description

It is a co-extruded, metallized BOPET film. Metallization on chemical coated side and other side corona treated. The film is available with optical density ranging from 2.2 - 2.8. The metal bond between the metal and the film is minimum of 600 gm/inch when metallized on chemical coated surface.

Features

- Outstanding metal appearance
- Excellent metal adhesion to film
- Very Good barrier properties
- Excellent dimensional stability, machinability & handling

Applications

- Flexible packaging
- Printing & lamination
- Hot fill application up to 100°C / 212°F

Properties	Ref.	Units	ASTM#/Test Method	MAF-1 (MO)					
Physical Data									
Average Thickness		micron	D-374-C	8	10	12	15	19	23
		gauge		32	40	48	60	76	92
		mils		0.3	0.4	0.5	0.6	0.7	0.9
Density		g/cc	D-1505	1.4	1.4	1.4	1.4	1.4	1.4
Average Substance		g/m ²		11.2	14.0	16.80	21.0	26.6	32.2
Yield		m ² /Kg	D-4321	89.29	71.43	59.52	47.62	37.59	31.06
		in ² /lb		62774	50219	41849	33480	26431	21834
Optical Data									
Optical Density Tolerance +/- 5% (*Customer to specify the OD value as per their application)	NB		CTM	2.2 - Normal barrier application					
	MB			2.5 - High barrier application					
	HB			2.8 - Special application					
Mechanical Data									
Tensile Strength (min.)	MD	kg/ cm ²	D-882	2000	2000	2000	2000	2000	2000
	TD			2100	2100	2100	2100	2100	2100
Elongation (min.)	MD	%	D-882	90	100	105	110	115	120
	TD			85	90	90	90	90	95
Thermal Data									
Linear Shrinkage (Max.) (150°C/302 F, 30 min.)	MD	%	D-1204	2.0					
	TD			0.4					
Surface Data									
Surface tension (min.)	MS	dynes/cm	D-2578	52					
Kinetic COF (Max.)	MS/NM	-	D-1894	0.7					
Barrier Data									
MVTR (38 °C, 90%RH)		g/m ² /day	F-1249	NB	MB		HB		
				1.1	0.7		0.5		
MVTR (100 °F, 90%RH)		g/100in ² /day		0.07	0.04		0.03		
OTR (23 °C, 0%RH)		cc/m ² /day	D-3985	1.2	1.1		0.9		
OTR (73 °F, 0%RH)		cc/100in ² /day		0.08	0.07		0.05		

CTM : Cosmo Test Method MD : Machine Direction TD : Transverse Direction CT : Corona Treated CS : Coated Side UT : Untreated
MS : Metal Side NM: Non-metal side

Note : PET film inherent surface tension is minimum 42 dynes/cm on untreated side

Storage & Handling : PET film needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, sources or high humidity.
If the material is stored in the recommended conditions PET is suitable for use within 6 months from the date of dispatch.

Disclaimer : The information provided above is based on COSMO FILMS conclusive tests, which are indicative only and provided as guidelines.
They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications.

Cosmo Films

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