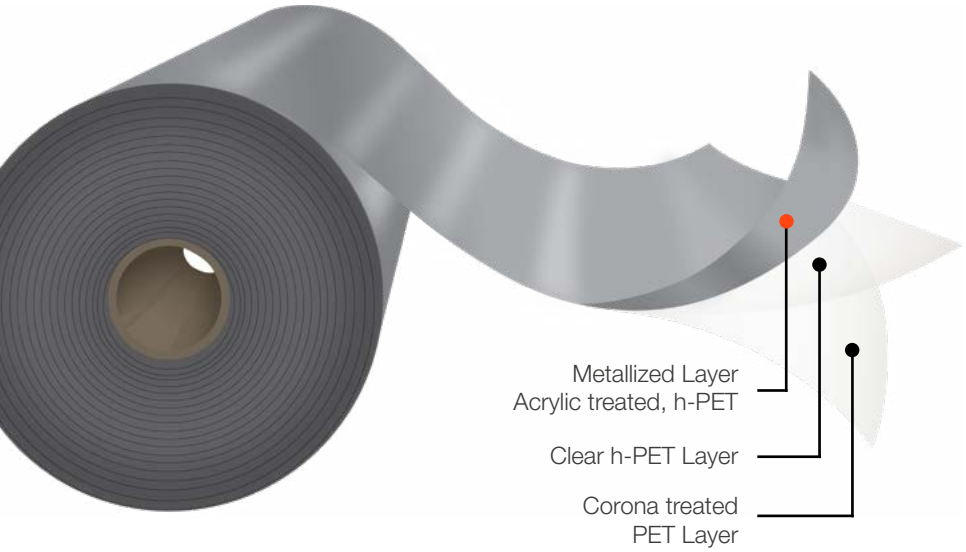
Metallized BOPET Film

On acrylic treated side,
reverse side corona treated.



Opet Metal Film a-MT

EMa - MT

Description

Opet Metal Film a-MT is metallized on one side by a controlled vacuum deposition process of high purity aluminum. The base film is one side acrylic treated and corona treated on the reverse side. The base raw material is PET homopolymer. The metal layer is applied on acrylic treated side and is located on the outside.

Main Characteristics

- Metallized on acrylic treated outside, corona treated inside
- Excellent moisture and oxygen barrier
- High heat resistance
- Excellent flatness and dimensional stability
- Very good bonds to metal, adhesives and inks
- Moisture and temperature resistance

Applications

This product is designed to be employed in laminations for products which requires light protection, oxygen and moisture barrier. The metal on the acrylic treatment delivers good bond strengths in water and solvent based laminations. It is recommended to use adhesives with good elastic curing to avoid affecting lamination bonds. It meets FDA regulations for direct food contact. This film is moisture and temperature resistant in hot filling and sterilization applications.

* Important Considerations

It is recommended to store this material at conditions not exceeding 86°F, at shadow and with a relative humidity of 60%.

It is important to keep overwrap to protect rolls from humidity while they are not used in order to avoid blocking of this material.

There might be a deterioration of certain physical properties by adverse storage conditions through time. It is therefore advisable to keep an adequate inventory turn-over of this material.

Standard Dimensions*

This product has lot size and width restrictions. Please consult your sales representative.
Refer to EMa-TM as the metal inside variant.

OpetFilm Code	Thickness (mils)	Yield (in^2/lb)	Width (in)	Core Size	22¼" Φ Outside Diam.		30" Φ Outside Diam.		Treatment
					Length (ft)	Weight (lb/in)	Length (ft)	Weight (lb/in)	
EM a 10 MT	0.39	50,200	15 to 80	6"	66,600	16.18	126,900	30.73	Metal/Acrylic Out Corona In
EM a 12 MT	0.47	41,900			55,800		105,600		

Typical Values of Physical Properties *

*Information presented in this data sheet is intended to be used as general guidelines and not as technical specifications.

Property		Unit	Testing Method	Thickness in mils	
				0.39	0.47
Optical Density		%	Tobias	2.2	
Metal Adhesion	M	g/in	OHG M050	610	
Coefficient of Friction - Kinetic	NM/NM	-	ASTM D1894	0.50	
Tensile Strength	MD	lb/in^2	ASTM D882	30,500	
	TD			31,900	
Elongation at Break	MD	%		125	
	TD			95	
Secant Modulus @ 2%	MD	lb/in^2		566,000	
	TD			609,000	
Shrinkage @ 300 °F, 30 min	MD	%	ASTM D1204	1.2	
	TD			1.0	
Surface Tension	NM	dyne/cm	OHG M004	56	
Water Vapor T. R. @ 100 °F, 90% R. H.		g/(100 in^2.day)	ASTM F1249	0.06	
Oxygen T. R. @ 73°F, 0% R. H.		cm^3/(100 in^2.d)	ASTM D3985	0.10	

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Notes: TD - Transverse Direction | MD - Machine Direction | M - Metallized Side | NM - Non Metallized Side