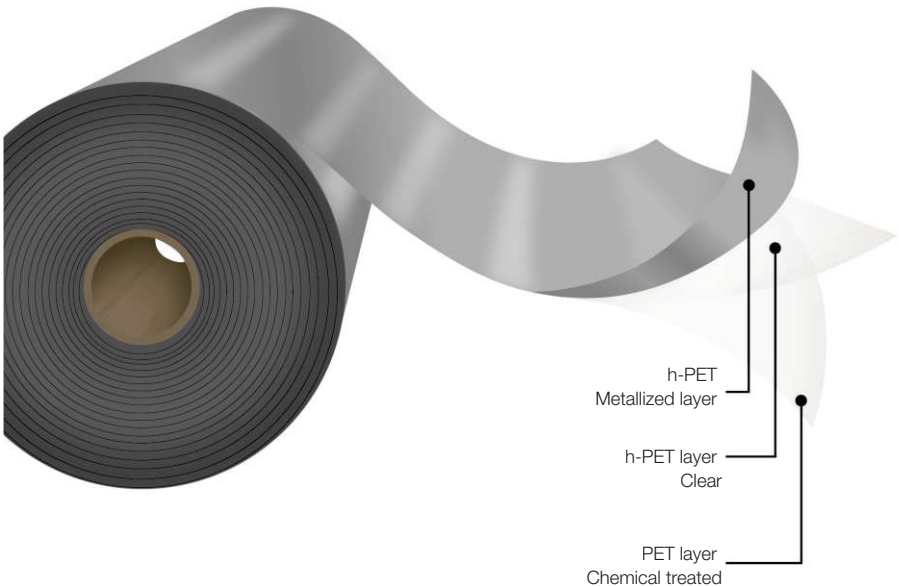


Metallized BOPET Film

OPET MetalFilm

EMa - MQ



On acrylic treated side, reverse side chemical treated

Description

Metallized on one side by a controlled vacuum deposition process of high purity aluminum. The base film is one side acrylic treated and chemical treated on the reverse side. The base raw material is PET homopolymer. The metal layer is applied on the acrylic treated side and it is located on the outside.

Main Characteristics

- Metallized on acrylic treated outside, chemical treated inside.
- Excellent moisture and oxygen barrier.
- 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. The chemical treatment offers an excellent adhesiveness to a variety of inks including PVB polyvinyl base systems, and adhesives. It meets FDA regulations for direct food contact. This film has limited moisture and temperature resistance in hot filling and sterilization applications.

* Important Considerations

*It is recommended to store this material at conditions not exceeding 30°C, under shade and with a relative humidity of 60%. To protect against humidity and avoid film blocking, rolls should stay covered with the plastic overwrap when not in use.

*The information in this data sheet is based on tests carried out in our laboratories and it is intended to be used for reference only, and does not constitute a specification; therefore, should not be construed as a guarantee of performance. It is the responsibility of the user to carry out the necessary tests to guarantee its use for the intended applications.

*This product complies with FDA and EU regulations. For more detailed information about our technical and regulatory documents, please visit our website: <https://www.obengroup.com/en/documents>

Standard Dimensions *

Film Code	Thickness (µm)	Unit Weight (g/m ²)	Width (mm)	Core Size	760 mm Ø Outside Diam.		Treatment
					Length (m)	Weight (kg/cm)	
EMa 10 MQ	10.0	13.9	400 to 2,000	6"	39,400	5.49	Metal/Acrylic Out Chemical In.
EMa 12 MQ	12.0	16.7			32,800		

*This product has lot size and width restrictions. Please consult your sales representative.

Typical Values of Physical Properties **

Property	Unit	Testing Method	Thickness in Microns	
			10.0	12.0
Optical Density	-	-	AIMCAL TP 101-78	
Metal Adhesion (104.4 °C, 15 Psi)	M	N/25mm	AIMCAL TP105	
Coefficient of Friction - Kinetic	Q/Q	-	ASTM D1894	
Tensile Strength	DM	N/mm ²	ASTM D882	
	DT			
Elongation at Break	DM	%	ASTM D882	
	DT			
Secant Modulus 2%	DM	N/mm ²	ASTM D882	
	DT			
Shrinkage (150 °C, 30 min)	DM	%	ASTM D1204	
	DT			
Surface Tension	Q	dyn/cm	ASTM D2578	
Water Vapor Transmission Rate (38 °C, 90 % R.H.)	-	g/(m ² .d)	ASTM F1249	
Oxygen Transmission Rate (23 °C, 0 % R.H.)	-	cm ³ /(m ² .d)	ASTM D3985	

**Information and data presented in this data sheet is intended to be used as general guidelines. Physical properties specifications are available upon request.

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