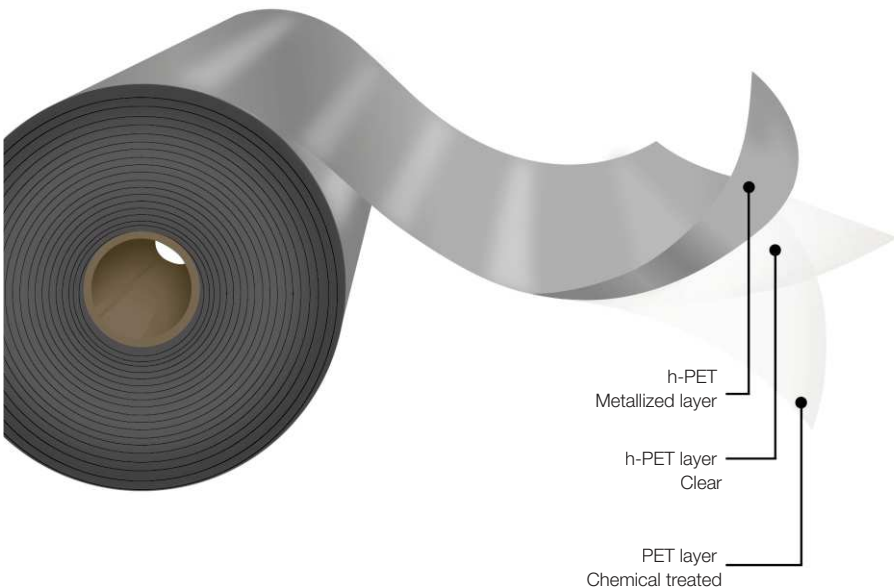


Metallized BOPET Film

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>

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

Film Code	Thickness (μm)	Unit Weight (g/m²)	Width (mm)	Core Size	760 mm Φ 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		

Typical Values of Physical Properties **

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

Property		Unit	Testing Method	Thickness in Microns	
				10.0	12.0
Optical Density	-	-	AIMCAL TP 101-78	2.2	
Metal Adhesion (104.4 °C, 15 Psi)	M	N/25mm	AIMCAL TP105	6.0	
Coefficient of Friction - Kinetic	Q/Q	-	ASTM D1894	0.50	
Tensile Strength	DM	N/mm²	ASTM D882	210	
	DT			220	
Elongation at Break	DM	%		125	
	DT			95	
Secant Modulus 2%	DM	N/mm²		3,900	
	DT			4,200	
Shrinkage (150 °C, 30 min)	DM	%	ASTM D1204	1.2	
	DT			1.0	
Surface Tension	Q	dyn/cm	ASTM D2578	64	
Water Vapor Transmission Rate (38 °C, 90 % R.H.)	-	g/(m².d)	ASTM F1249	1.0	
Oxygen Transmission Rate (23 °C, 0 % R.H.)		cm3/(m².d)	ASTM D3985	1.5	

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