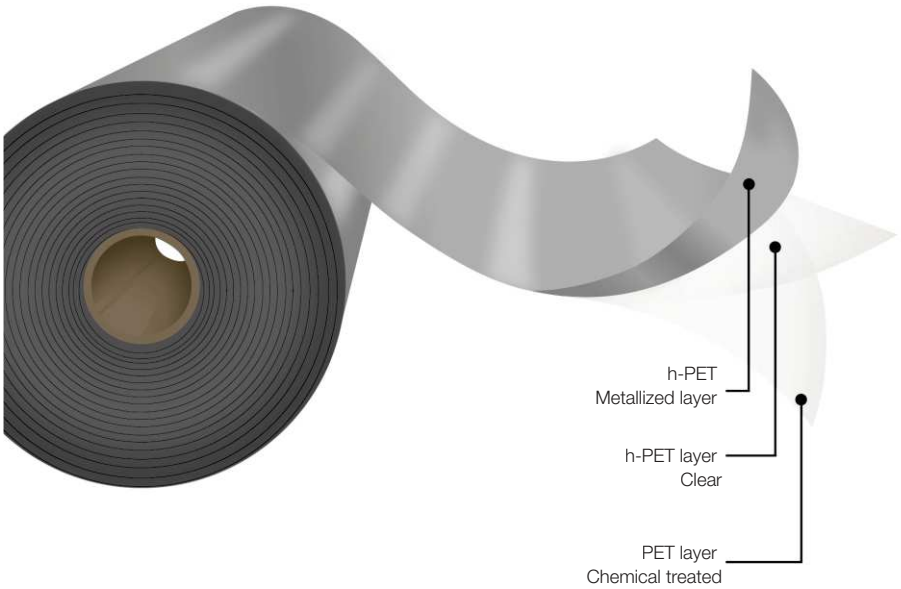
Metallized BOPET Film

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 *

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

Film Code	Thickness (mils)	Yield (in²/lb)	Width (in)	Core Size	30" Φ Outside Diam.		Treatment
					Length (ft)	Weight (lb/in)	
EMa 10 MQ	0.39	50,500	15 to 80	6"	129,300	30.73	Metal/Acrylic Out Chemical In.
EMa 12 MQ	0.47	42,100			107,700		

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 Mils	
				0.39	0.47
Optical Density	-	-	AIMCAL TP 101-78	2.2	
Metal Adhesion (220 °F, 15 Psi)	M	g/in	AIMCAL TP105	700	
Coefficient of Friction - Kinetic	Q/Q	-	ASTM D1894	0.5	
Tensile Strength	DM	lb/in²	ASTM D882	30,500	
	DT			32,000	
Elongation at Break	DM	%		125	
	DT			95	
Secant Modulus 2%	DM	lb/in²		565,700	
	DT			609,200	
Shrinkage (302 °F, 30 min)	DM	%	ASTM D1204	1.2	
	DT			1	
Surface Tension	Q	dyn/cm	ASTM D2578	64	
Water Vapor Transmission Rate (100.4 °F, 90 % R.H.)	-	g/(100 in².day)	ASTM F1249	0.06	
Oxygen Transmission Rate (73.4 °F, 0 % R.H.)		cm3/(100 in².day)	ASTM D3985	0	

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Notes: DM - Machine Direction | DT - Transverse Direction | M - Metallized Side | Q - Copolyester Treated Side