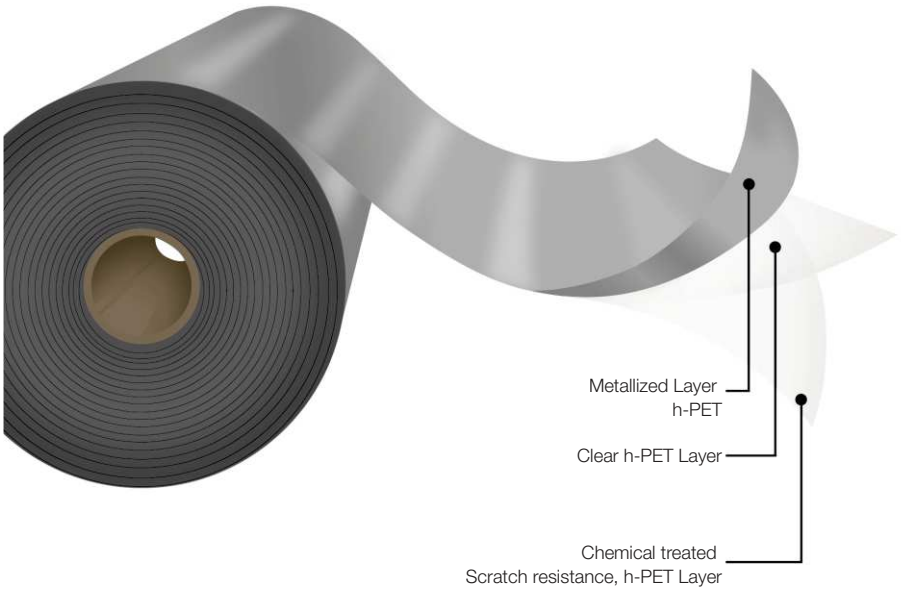
Metallized BOPET Film

OPET MetalFilm

EMg - MQ



High reflectance, reverse side chemical treated, high scratch resistance.

Description

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

Main Characteristics

- Metallized outside, chemical treated inside.
- High reflectance with improve brightener.
- Non metallized side with high scratch resistance.
- Outstanding machinability.
- Excellent flatness and dimensional stability.
- Very good bonds to metal, adhesives and inks.

Applications

This product is designed to be used in laminations for products where high scratch resistance is required. The metal side delivers high reflectance. The chemical treatment provides superior adhesion to the UV inks, also has limited resistance to temperature and moisture so it is not recommended for hot filling processes and sterilization.

*** 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)	
EMg 10 MQ	0.39	50,500	15 to 80	6"	129,300	30.73	Metal Out Chemical In.
EMg 12 MQ	0.47	42,100			107,700		
EMg 23 MQ	0.91	22,000			56,500		

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	0.91
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	0.35		
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		
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