

Terphane® Seal



BOPET film, heat-sealable copolyester on one side, corona treated on the reverse side

Description

Biaxially oriented transparent polyester film, heat-sealable on one side and corona-treated on the reverse side. The base resin is a PET homopolymer. The heat-sealable copolyester layer is located on the inner side of the reel. The corona-treated side is located on the outer side of the reel.

Main Characteristics

- Transparent with excellent thermal and mechanical stability; barrier to vapor, and aromas.
- Outstanding processability in converting processes: lamination, metallization.
- Wide sealing range.
- Good flatness and dimensional stability.

Applications

Used in a wide range of converting processes for the food packaging industry, as well as in industrial applications. The film is heat-sealable to itself and to substrates such as aPET and cPET. The copolyester layer provides good tack when heat-sealed to paper and aluminum foil. The corona-treated side offers good adhesion to various ink systems, adhesives, and aluminum in metallization processes. When laminated with other films, it is suitable for box-type packaging, flat-bottom gusseted pouches, fold-over closure packages, aromatic products, and pharmaceutical blisters, among others. Complies with FDA and EU regulations for food-contact materials.

* Important Considerations

*It is recommended to store this material at conditions not exceeding 30°C, in a place without exposure to sunlight and with a relative humidity of 60%. To protect against humidity and avoid film blocking, rolls should stay covered with plastic overwrap when not in use.

*The information in this data sheet is based on tests carried out in our laboratories and 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 information, please visit our website: <https://www.obengroup.com/en/doc-regulatorios/>

Standard
Dimensions *

*For specific lot sizes, widths, or outer diameters. Please, contact your sales representative.

Film Code	Thickness (mils)	Yield (in²/lb)	Width (in)	Core Size	30" Ø Outside Diam.		Treatment
					Length (ft)	Weight (lb/in)	
EC 12 TC	0.47	42,100	15 to 80	6"	107,700	30.73	Heat seal In/ Corona Out
EC 15 TC	0.59	33,500			86,000		
EC 19 TC	0.75	26,500			68,000		
EC 23 TC	0.91	21,900			56,200		
EC 36 TC	1.42	14,000			35,800		

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 Mils				
				0.47	0.59	0.75	0.91	1.42
Haze	-	%	ASTM D1003	2.5	3.5	4.5	6.0	
Coefficient of Friction - Kinetic	C/C	-	ASTM D1894	0.45				
	T/T			0.30				
Tensile Strength	DM	lb/in²	ASTM D882	32,000				
	DT			37,800				
Elongation at Break	DM	%		125				
	DT			100				
Secant Modulus 2%	DM	lb/in²		565,700				
	DT			609,200				
Surface Tension	T	dyn/cm	ASTM D2578	56				
Seal Strength (248°F, 40 psi, 1s)	C/C	g/in	ASTM F88	370	420	470		
Water Vapor Transmission Rate (100.4 °F, 90 % R.H.)	-	g/(100 in².day)	ASTM F1249	2.45	2.19	1.81	1.42	0.97
Oxygen Transmission Rate (73.4 °F, 0 % R.H.)		cm³/(100 in².day)	ASTM D3985	6.45	5.94	5.16	4.52	3.23

