

enhance

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## BFC

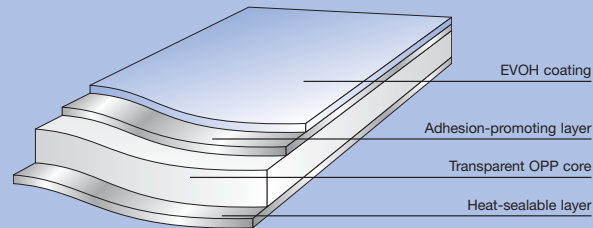
Transparent ultra-high gas barrier OPP film, EVOH-coated for duplex lamination

- Exceptional gas, flavour and aroma barrier
- Good machinability
- Excellent optical properties
- Superior adhesive anchorage and printability



## TREOFAN PACKAGING FILM BFC

Transparent ultra-high gas barrier OPP film, EVOH-coated on one side, copolymer untreated on the other side



Treofan BFC is designed to be used for duplex lamination in high gas barrier or MAP applications. As Treofan BFC is chlorine-free, it is environmentally friendly and offers an outstanding gas barrier when the EVOH coating is protected from moisture by lamination with suitable films.

## PRODUCT FEATURES

Main properties:

- exceptional gas, flavour and aroma barrier
- suitable for modified atmosphere packaging when laminated to hermetically sealant web
- excellent optical properties
- excellent printability and adhesive anchorage on EVOH side
- lap-sealable to a co-extruded OPP, PE metallocene and cast PP
- not sealable on the EVOH side
- 100% water-based coating

## APPLICATIONS AND PROCESSING

Treofan BFC, thanks to its ultra-high barrier to gases, is ideal for modified atmosphere packaging applications when laminated with hermetically sealant layers.

Treofan BFC is recommended in duplex lamination for packaging of dry products such as dried fruits, powders, nuts or cereals.

Conversion:

- Treofan BFC is printable on the EVOH side with flexographic and rotogravure technologies. The EVOH side is suitable for adhesive lamination with PE, PE metallocene, cast PP, co-extruded OPP and other substrates

Storage:

- Treofan BFC has to be protected from water and from high levels of humidity. Place Treofan BFC in the processing area approximately 24 hours prior to processing

Certified according to

## DIN EN ISO 9001:2000

Compliance with industrial health and safety standards: Treofan OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health and safety regulations are observed. Relevant guidelines can be found in our safety information.

## TECHNICAL DATA (typical values)

Properties	BFC 19	Unit	Measuring method
Nominal thickness	19	µm	–
Unit weight	17.2	g/m <sup>2</sup>	ISO 4591
Density	0.91	g/cm <sup>3</sup>	–
Yield	58.1	m <sup>2</sup> /kg	–
Tensile strength: machine direction transverse direction	140 300	N/mm <sup>2</sup> N/mm <sup>2</sup>	ASTM D 882 DIN 53455
Elongation at break: machine direction transverse direction	210 50	% %	ASTM D 882 DIN 53455
Dimensional stability: machine direction transverse direction	-4.5 -2.5	% %	130°C, 5 min 130°C, 5 min
Coefficient of friction (sealant layer)	0.25	–	ASTM D 1894 – DIN 53375
Heat-seal range (sealant layer)	115–145	°C	15 psi, 115°C, 0.75" (flat bar)
Heat-seal strength (sealant layer)	210	g/cm	Treofan
Water vapour transmission: 38°C/90% rh 23°C/85% rh	6.5 1.3	g/m <sup>2</sup> *d g/m <sup>2</sup> *d	ASTM F 1249 ASTM F 1249
Oxygen permeability: 23°C/0% rh	1.5	cm <sup>3</sup> /m <sup>2</sup> *d	ASTM D 3985
Haze	1.3	%	ASTM D 1003
Gloss: EVOH side sealant layer	90 90	% %	ASTM D 2457 ASTM D 2457

## AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	3-times standard	6-times standard
BFC 19	10,500	21,000

Maximum reel outside diameter (mm):

Core diameter	3-times standard	6-times standard
152 mm	approx. 550	approx. 770

Maximum reel width: 2,000 mm

Standard conditions: EVOH coating on the external side

Tests have shown that under the prescribed storage conditions the characteristics of Treofan BFC will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan BFC is largely unaffected by climatic influences, but should not be stored at temperatures above 30°C (86°F). The rolls should be kept in their original wrapping until used. After the rolls have been unwrapped, they should be stored safely in horizontal position.

### Food Safety

Treofan BFC has been developed specially for packaging foods and meets the specific requirements on health and safety. It meets the FDA and EC regulations, which includes the specific "German Food and Commodity Act" and the current recommendations of the BfR. Compliance with other specific national regulations is available on request.

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