

crystal

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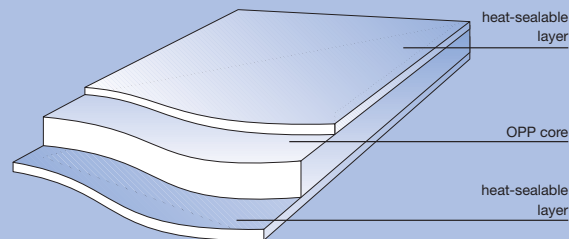
## GEA

Transparent co-extruded  
OPP film



## TREOFAN PACKAGING FILM GEA

Transparent OPP two-side heat-sealable  
film for overwrapping



Treofan GEA is a biaxially oriented, co-extruded polypropylene film. Its tailored slip properties make it particularly suitable for high-speed overwrapping applications. Treofan GEA is only available in an untreated version.

## PRODUCT FEATURES

### Physical characteristics:

- high resistance to tear and puncture
- excellent resistance to low temperatures
- dimensionally stable under conditions of varying humidity
- high heat-seal strength

### Film characteristics:

- low water vapour permeability
- water-repellent
- resistance to biological oil and biological grease
- odourless and taste-free
- physiologically harmless, thus suitable for food packaging

### Optical characteristics:

- transparent
- excellent gloss

### Special properties:

- tailored slip for high-speed overwrapping
- good anti-static properties

## APPLICATIONS AND PROCESSING

Treofan GEA is specifically designed for use on overwrapping machinery. Its tailored slip and anti-static properties make it ideal for high-speed applications.

### Packaging:

- Treofan GEA is successfully used on a wide range of overwrapping machinery

### Storage:

- place Treofan GEA 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	GEA 20	GEA 25	Unit	Measuring method
Nominal thickness	20	25	µm	–
Unit weight	18.2	22.8	g/m <sup>2</sup>	ISO 4591
Density	0.91	0.91	g/cm <sup>3</sup>	–
Yield	54.9	44.0	m <sup>2</sup> /kg	–
Heat-seal strength	1.5	1.5	N/15 mm	Treofan
Coefficient of friction (film/film)	0.4	0.4	–	ISO 8295
Haze	2.3	2.8	%	ASTM D 1003
Gloss	100	100	%	DIN 67530
Tensile strength: machine direction transverse direction	140 300	140 300	N/mm <sup>2</sup> N/mm <sup>2</sup>	DIN ISO 527-1/-3 DIN ISO 527-1/-3
Elongation at break: machine direction transverse direction	180 60	180 60	% %	DIN ISO 527-1/-3 DIN ISO 527-1/-3
Water vapour permeability: 23°C/85% rh 38°C/90% rh	1.3 6.0	1.0 4.4	g/m <sup>2</sup> *d ±10 %	ASTM F 1249 ASTM F 1249

## AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	Up to 6-times standard
GEA 20	3,200	19,200
GEA 25	2,800	16,800

8-times standard or other reel lengths available on request

Maximum reel outside diameter (mm):

Core diameter	Standard length	Up to 6-times standard
77 mm	approx. 330	–
152 mm	approx. 360	approx. 800

Max. reel width: 2,000 mm (widths > 2,000 mm on request)

Tests have shown that under the prescribed storage conditions the characteristics of Treofan GEA will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan GEA 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 GEA 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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