

crystal

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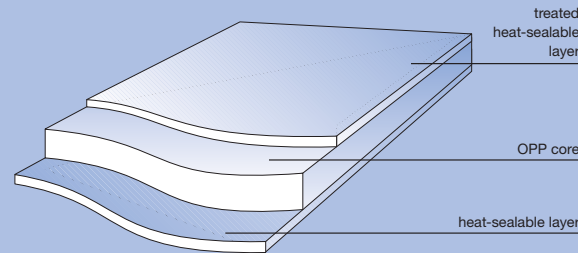
GND

- Transparent co-extruded OPP film
- Two-side heat-sealable
- One-side treated



TREOFAN PACKAGING FILM GND

Two-side heat-sealable transparent OPP film



Treofan GND is a biaxially oriented, co-extruded polypropylene film. Uniform high quality allows the wide use of Treofan GND on a variety of processing and packaging machines. The film is corona-treated on one side to improve adhesion during printing and lamination.

PRODUCT FEATURES

Film characteristics:

- low water vapour permeability
- water-repellent
- physiologically harmless, thus suitable for food packaging
- high resistance to tear and puncture
- excellent resistance to low temperatures
- dimensionally stable under conditions of varying humidity

Special properties:

- good anti-static properties
- consistent slip
- high seal integrity
- excellent transparency

APPLICATIONS AND PROCESSING

Treofan GND can be used for packaging various types of filling products and products which need to be protected against moisture or dehydration. Also for packages subject to high mechanical stress such as deep-freeze packs.

Printing:

- flexographic and rotogravure printing (half-tone and line)
- sandwich printing of Treofan GND is widely used in various lamination applications

Laminating:

- adhesive or extrusion lamination with OPP or with other substrates, depending on application

Packaging:

- Treofan GND is successfully used on a wide range of form, fill and seal machines

Storage:

- place Treofan GND 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	GND 15	GND 20	GND 25	GND 30	GND 35	GND 40	GND 50	Unit	Measuring method
Nominal thickness	15	20	25	30	35	40	50	µm	–
Unit weight	13.7	18.2	22.8	27.3	31.9	36.4	45.5	g/m ²	ISO 4591
Density	0.91	0.91	0.91	0.91	0.91	0.91	0.91	g/cm ³	–
Yield	73.3	54.9	43.9	36.6	31.4	27.5	22.7	m ² /kg	–
Heat-seal strength	1.8	1.8	2.0	2.2	2.3	2.5	2.8	N/15 mm	Treofan
Seal range	107–140	107–140	107–140	107–140	107–140	107–140	107–140	°C	Treofan
Coefficient of friction (film/film)	0.35–0.4	0.35–0.4	0.35	0.35	0.35	0.35	0.35	–	ISO 8295
Wettability	36–39	36–39	36–39	36–39	36–39	36–39	36–39	mN/m	ISO 8296
Haze	2.0	2.4	3.0	3.0	3.1	3.2	3.5	%	ASTM D 1003
Tensile strength: machine direction transverse direction	130 270	130 310	130 330	130 330	130 330	130 330	130 330	N/mm ² N/mm ²	DIN EN ISO 527-1/-3 DIN EN ISO 527-1/-3
Elongation at break: machine direction transverse direction	180 60	180 60	180 50	190 50	200 50	210 50	220 50	% %	DIN EN ISO 527-1/-3 DIN EN ISO 527-1/-3
Water vapour permeability: 38°C/90% rh	10.0	7.0	5.0	4.5	4.0	3.5	2.5	g/m ² ·d ±10%	ASTM F 1249

AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	Up to 6-times standard
GND 15	4,400	26,400
GND 20	3,500	21,000
GND 25	2,800	16,800
GND 30	2,350	14,100
GND 35	2,000	12,000
GND 40	1,750	10,500
GND 50	1,400	8,400

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)

The figures and the data provided in this data sheet are consistent with the current state of our knowledge, and are intended to provide general information on our products and their applications. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications. Any existing commercial rights or patents must be observed.

Tests have shown that under the prescribed storage conditions the characteristics of Treofan GND will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan GND 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 GND has been developed specially for packaging foods and meets the specific requirements on health and safety. It meets the FDA and EU 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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