

impact

impact

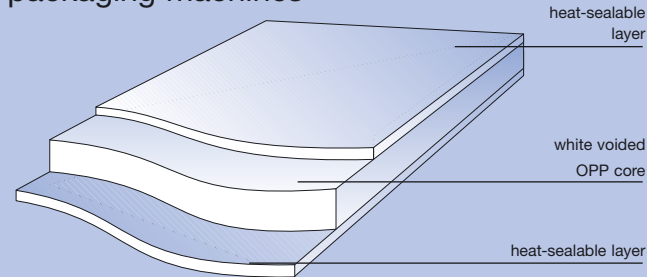
TND

White voided co-extruded
OPP film



TREOFAN PACKAGING FILM TND

Heat-sealable white voided OPP film with high opacity and whiteness for high-speed packaging machines



Treofan TND is a biaxially oriented, co-extruded polypropylene film. Its special characteristic is the white colour produced by the compact cellular structure. The film is corona-treated on one side to improve adhesion during printing and lamination.

PRODUCT FEATURES

Physical characteristics:

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

Film characteristics:

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

Optical characteristics:

- enhanced whiteness contributing to superb print presentation
- white finish gives impression of hygiene and cleanliness

Special properties:

- excellent sealing properties
- consistent slip
- good print receptivity
- protection against light-induced fat oxidation due to the light barrier in the UV range
- good anti-static properties

APPLICATIONS AND PROCESSING

Treofan TND 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)
- We are happy to recommend suitable inks.
- high whiteness of the OPP film saves white base colour, particularly with full service-printing

Laminating:

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

Packaging:

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

Storage:

- place Treofan TND in the processing area approximately 24 hours prior to processing

Do not corona-treat this film a second time.

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 | TND 28 | TND 35 | TND 40 | TND 50 | Unit | Measuring method |
|---|--------|--------|--------|--------|--------------------|---------------------|
| Unit weight | 21.5 | 26.0 | 30.0 | 37.0 | g/m ² | ISO 4591 |
| Yield | 46.5 | 38.5 | 33.3 | 27.0 | m ² /kg | ISO 4591 |
| Heat-seal strength untreated side 130°C – 0,5 s – 10 N/cm ² | > 1.0 | > 1.0 | > 1.0 | > 1.0 | N/15 mm | Treofan |
| Coefficient of friction film/film: | 0.4 | 0.4 | 0.4 | 0.4 | – | DIN EN ISO 8295 |
| Surface tension treated side | > 36 | > 36 | > 36 | > 36 | mN/m | DIN ISO 8296 |
| Gloss | < 25 | < 25 | < 25 | < 25 | gloss units | DIN EN ISO 2813 |
| Opacity | 78 | 82 | 84 | 86 | % | DIN 53146 |
| Whiteness according to Berger | 82 | 84 | 85 | 87 | % | DIN 5033 |
| Breaking load: machine direction | 30 | 40 | 45 | 55 | N/15 mm | DIN EN ISO 527-1/-3 |
| transverse direction | 70 | 90 | 110 | 130 | N/15 mm | DIN EN ISO 527-1/-3 |
| Elongation at break: machine direction | 140 | 140 | 140 | 140 | % | DIN EN ISO 527-1/-3 |
| transverse direction | 35 | 35 | 35 | 35 | % | DIN EN ISO 527-1/-3 |
| Water vapour permeability: 23°C/85% rh | 1.1 | 0.9 | 0.8 | 0.6 | g/m ² d | ASTM F 1249 |
| 38°C/90% rh | 5.5 | 4.5 | 4.0 | 3.0 | g/m ² d | ASTM F 1249 |

AVAILABILITY

Reel length (m):

| Packaging film | Standard length | up to 6 times standard |
|----------------|-----------------|------------------------|
| TND 28 | 2,300 | 13,800 |
| TND 35 | 1,800 | 10,800 |
| TND 40 | 1,600 | 9,600 |
| TND 50 | 1,300 | 7,800 |

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. 310 | – |
| 152 mm | approx. 340 | approx. 740 |

Max. reel width: 2,000 mm (width > 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 TND will maintain consistent performance throughout a 6-months period. Treofan TND is largely unaffected by climatic influences, but should not be stored at temperatures above 40°C (104°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 TND 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.

HEADOFFICE TREOFAN GROUP

Treofan Germany GmbH & Co. KG
Am Prime Parc 17
65479 Raunheim, Germany
Phone: +49 6142 200 0
Fax: +49 6142 200 3299

SALES CONTACTS

Business Team Head Packaging
Phone: +49 6142 200 3265
Fax: +49 6142 200 3299
guido.bisch@de.treofan.com
Contact: Guido Bisch

Africa
Phone: +27 11 761 7617
gunnar.vahlenkamp@za.treofan.com
Contact: Gunnar Vahlenkamp

Australia
Phone: +61 3 9859 8028
mark.grice@au.treofan.com
Contact: Mark Grice

Benelux
Phone: +31 416 39 1947
marius.beune@de.treofan.com
Contact: Marius Beune

Eastern Europe
Phone: +49 6142 200 3263
peter.breburda@de.treofan.com
Contact: Peter Breburda

Export Treofan Group
Phone: +49 6142 200 3265
guido.bisch@de.treofan.com
Contact: Guido Bisch

Export Asia
Phone: +61 3 9859 8638
martin.scarlett@au.treofan.com
Contact: Martin Scarlett

France
Phone: +33 1 3098 5604
elios.gibanel@fr.treofan.com
Contact: Elios Gibanel

Germany/Switzerland/Austria
Phone: +49 6142 200 3402
urs.ulrich@de.treofan.com
Contact: Urs Ulrich

Iberica
Phone: +34 93 306 8327
ignacio.velez@es.treofan.com
Contact: Ignacio Velez

Italy
Phone: +39 02 6718 7432
sergio.arcari@it.treofan.com
Contact: Sergio Arcari

Mexico/Latin America
Phone: +52 436 363 8044
+52 436 363 8115
alfonso.flores@mx.treofan.com
Contact: Alfonso Flores

United Kingdom
Phone: +44 1793 34 4004
carey.ashworth@uk.treofan.com
Contact: Carey Ashworth

USA/Canada
Phone: +1 336 766 9448
grant.gustafson@us.treofan.com
Contact: Grant Gustafson



www.treofan.com