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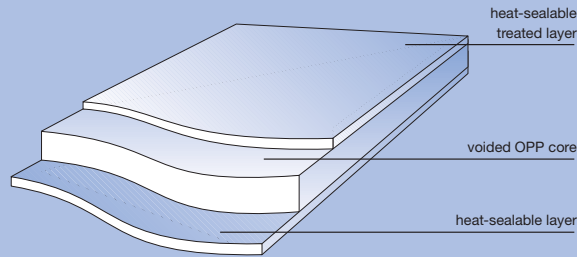
**HPW**

Voided, co-extruded OPP film with pearlescent appearance



## TREOFAN PACKAGING FILM HPW

Two-side heat-sealable, voided OPP film with pearlescent look



Treofan HPW is a biaxially oriented, co-extruded polypropylene film. Its special characteristic is the pearlescent look 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 biological oil and biological grease
- odourless and taste-free
- physiologically harmless, thus suitable for food packaging

### Optical characteristics:

- pearlescent look on two sides

### Special properties:

- good anti-static properties
- good print receptivity

## APPLICATIONS AND PROCESSING

Treofan HPW 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)

### Laminating:

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

### Packaging:

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

### Storage:

- place Treofan HPW 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	HPW 34	HPW 40	Unit	Measuring method
Unit weight	24.5	28.8	g/m <sup>2</sup>	ISO 4591
Yield	40.8	34.7	m <sup>2</sup> /kg	ISO 4591
Heat-seal strength (untreated side)	> 1.0	> 1.0	N/15 mm	Treofan
Coefficient of friction (film/film)	0.30	0.30	–	DIN EN ISO 8295
Surface tension (treated side)	36–39	36–39	mN/m	DIN ISO 8296
Gloss	< 25	< 25	gloss units	DIN EN ISO 2813
Opacity	66	68	%	DIN 53146
Whiteness according to Berger	64	65	%	DIN 5033
Breaking load: machine direction	35	40	N/15 mm	DIN EN ISO 527-1/-3
transverse direction	80	95	N/15 mm	DIN EN ISO 527-1/-3
Elongation at break: machine direction	190	190	%	DIN EN ISO 527-1/-3
transverse direction	40	40	%	DIN EN ISO 527-1/-3
Water vapour permeability: 23°C/85% rh	1.2	1.1	g/m <sup>2</sup> *d	ASTM F 1249
38°C/90% rh	6.0	5.5	g/m <sup>2</sup> *d	ASTM F 1249

## AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	Up to 6-times standard
HPW 34	1,850	11,100
HPW 40	1,600	9,600

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 (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 HPW will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan HPW 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 HPW 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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