

# HND

## Low Sealing Temperature Transparent Film

### Applications

Very wide sealing range; for high speed HFFS packaging lines.

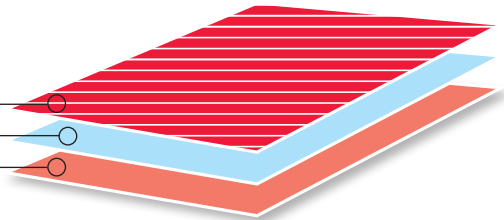
### Description

HND is a transparent, one side low heat sealable (90°C), one side treated, heat sealable OPP film. It has a wide seal range in order to enable high speed HFFS packaging capability, whilst retaining good hot tack and seal integrity.

### Product features

- Transparent, low haze and excellent gloss
- Tailored and controlled hot slip properties, up to 60°C
- Low sealing threshold (90°C) layer for high speed HFFS packaging machines
- Corona treated side contributes to improve printing and lamination
- Good moisture barrier
- Not suitable for boost treatment

Heat sealable layer, treated  
Transparent layer  
Low temperature heat sealable layer



## Technical Data (Typical Value)

Properties	HND 20	HND 25	HND 30	Unit	Measuring method
<b>Unit weight</b>	18.2	22.8	27.3	g/m <sup>2</sup>	ISO 4591
<b>Average yield</b>	54.9	44.0	36.6	m <sup>2</sup> /kg	ISO 4591
<b>Haze</b>	2.0	2.2	2.5	%	ASTM D 1003
<b>Gloss</b>					
At 20° (standard heat-sealable side)	100	100	100	gloss unit	ISO 2813
<b>Heatseal strength</b>	2.0	2.0	2.0	N/15 mm	Treofan
<b>Heatseal range</b>					
Low heat-sealable side	90-140	90-140	90-140	°C	Treofan
<b>Coefficient of friction</b>					
Film/film, dynamic	0.3	0.3	0.3	-	ISO 8295
* Surface tension treated side	≥ 36	≥ 36	≥ 36	mN/m	ISO 8296
<b>Tensile strength</b>					
Machine direction	130	130	130	N/mm <sup>2</sup>	ISO 527
Transverse direction	280	280	280	N/mm <sup>2</sup>	ISO 527
<b>Elongation at break</b>					
Machine direction	230	230	230	%	ISO 527
Transverse direction	55	55	55	%	ISO 527
<b>Water vapour permeability</b>					
23°C / 85% r.h.	1.4	1.1	0.9	g/m <sup>2</sup> /d	ASTM F 1249
38°C / 90% r.h.	6.8	5.5	4.6	g/m <sup>2</sup> /d	ASTM F 1249

\* within 6 months after production

## Availability

Dimensions	HND 20	HND 25	HND 30	Unit
<b>Reel length</b>				
Standard length (6-times)	21 000	16 800	14 100	m
<b>Max. reel outside diameter</b>				
Core diameter 152 mm	775	774	775	mm

Max. reel width: 2000 mm (widths > 2000 mm on request)

### Storage

The reels should be kept in their original packaging until used. It is recommended that films are stored below 30°C in order to minimize deterioration of film properties. All films should be allowed to reach operation room temperature for 24 hours before use.

\* The treatment level declines with time.

### Food Approval

Treofan HND is in compliance with current US FDA and European food contact regulation.

### Health and Safety

Treofan HND has specially been developed for packing foods and meets the specific requirements on health and safety.

The figures and data provided in this datasheet are consistent with the current state of our knowledge and are intended to provide general information about our products and their applications. The data collected in this document is for non-binding information purposes only. The exact quality of the products is detailed in the technical specifications which are sent together with the order confirmation. Any existing commercial rights or patents must be observed. Certified according to DIN EN ISO 9001, DIN EN ISO 50001, BRC IOP, AIB. 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.

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