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# Tobacco Films

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Product Range 09/2018

TREOFAN

## About Treofan

The Treofan Group is a leading global manufacturer of biaxially oriented polypropylene films (BOPP films) for packaging, label, tobacco and technical applications.

Treofan has almost 50 years of experience in the BOPP market and is a supplier of high-quality BOPP products and tailor-made, intelligent solutions in more than 90 countries.

Treofan has positioned itself as a worldwide premium provider with profound film expertise. Numerous patents prove the company's innovative strength. Treofan delivers solutions that are globally applicable, easy to handle, market differentiated and at the same time economical.

In a network with partners, Treofan develops application-oriented solutions and new service concepts while providing first-class technical service to customers all over the world.

## Tobacco Films

Treofan has been supplying the tobacco industry for several decades with a diverse range of dedicated overwrapping films for tobacco products. Treofan pioneered 16 micron thin film to support packaging weight reduction and helped to establish high shrink film to improve the look of cigarette hard packs. Today, Treofan continues to refine our portfolio by enhancing key properties that influence the protection and presentation of tobacco products as well as machinability and performance during packaging or print processes and in automated vending.

This booklet presents the Treofan tobacco film range for classical soft and hard packs, bundle overwrap and direct (clear) bundle wrap. Treofan is open to developing new packaging concepts for conventional and alternative tobacco products. If you wish to discuss your requirements, please contact the Tobacco team under [tobaccofilms@treofan.com](mailto:tobaccofilms@treofan.com).




## Content


### Product Range

<b>Non-Printable Overwrap Films – Non Shrink</b> LEO   ZNA	4
<b>Non-Printable Overwrap Films – Medium Shrink</b> BEO   ZSA	5
<b>Non-Printable Overwrap Films – High-Shrink</b> ZXA   ZPA	6
<b>Printable Overwrap Films</b> ZSD   ZXD	7
<b>Collation Bundle Wrap Films</b> ZNC   ZSC	8
<b>Application Overview</b>	9
<b>Layer Description</b>	10
<b>Anti-Illicit Trade &amp; Counterfeiting Policy</b>	10
<b>Environment</b>	10
<b>Certifications</b>	11

## Non Shrink

Density 0.91 g/cm<sup>3</sup>


Type	Structure	Nominal thickness (µm)	Unit weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Description/ Application
<b>LEO</b>		16	15.0	66.6	Value grade for pack and bundle overwrap
		<b>18*</b>	<b>16.4</b>	<b>61.1</b>	
		20	18.2	54.9	
		25	22.8	43.9	


<b>ZNA</b>		16	15.0	66.6	Premium grade for pack and bundle overwrap, vending machine approved
		<b>18*</b>	<b>16.4</b>	<b>61.1</b>	
		20	18.2	54.9	
		25	22.8	43.9	

\* available on request | new products are marked in **blue** | for detailed product figures and data please request the **Technical Datasheets via email at [tobaccofilms@treofan.com](mailto:tobaccofilms@treofan.com)**

## Medium Shrink

Density 0.91 g/cm<sup>3</sup>



Type	Structure	Nominal thickness (µm)	Unit weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Description/ Application
<b>BEO</b>		16	15.0	66.6	Value grade for pack and bundle overwrap
		<b>18*</b>	<b>16.4</b>	<b>61.1</b>	
		20	18.2	54.9	
		25*	22.8	43.9	

<b>ZSA</b>		16	15.0	66.6	Premium grade for pack and bundle overwrap, vending machine approved
		18	16.4	61.1	
		20	18.2	54.9	
		25*	22.8	43.9	

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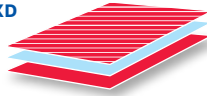
## High-Shrink

Density 0.91 g/cm<sup>3</sup>

Type	Structure	Nominal thickness (µm)	Unit weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Description/ Application
<b>ZXA</b>		20	18.2	54.9	Premium grade for pack and bundle overwrap, excellent moisture barrier and vending machine approved
		<b>25</b>	<b>22.8</b>	<b>43.9</b>	
<b>ZPA</b>		16	15.0	66.6	Premium grade for pack and bundle overwrap, vending machine approved for tropical conditions
		<b>18*</b>	<b>16.4</b>	<b>61.1</b>	
		20	18.2	54.9	

## Corona Treated

Density 0.91 g/cm<sup>3</sup>

Type	Structure	Nominal thickness (µm)	Unit weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Description/ Application
<b>ZSD</b>		16	15.0	66.6	Premium grade for pack and bundle overwrap, printable for promotional and price communications; medium shrink
		<b>18*</b>	<b>16.4</b>	<b>61.1</b>	
		20	18.2	54.9	
<b>ZXD</b>		<b>25</b>	<b>22.8</b>	<b>43.9</b>	Premium grade for pack and bundle overwrap, printable for promotional and price communications; high-shrink; excellent moisture barrier

### Surface treatment: how to determine the treatment level of Treofan corona treated printable overwrap films

The treated surface of ZSD and ZXD film can be identified using conventional treatment pens. In order to determine the exact treatment level of the surface, please use special test liquids which indicate different surface tensions. We recommend the following procedure in order to obtain valid and reproducible results:

- immerse the sample in n-heptane for five minutes
- dry the sample in air under ambient conditions, avoiding any physical contact with the film surface
- now measure the treatment level with the usual test liquids

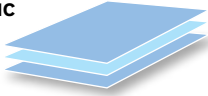
Treofan ZSD and ZXD film cannot be boost treated inline!

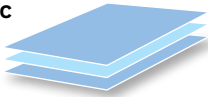
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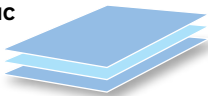
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## Acrylic Coated

Density 0.91 g/cm<sup>3</sup>

Type	Structure	Nominal thickness (µm)	Unit weight (g/m <sup>2</sup> )	Yield (m <sup>2</sup> /kg)	Description/ Application
<b>ZNC</b>		20	18.2	54.9	Premium acrylic coated film for clear bundle (direct) wrap and OTP overwrap
		25	22.8	43.9	
		30	27.3	36.6	
		<b>40</b>	<b>36.4</b>	<b>27.5</b>	

<b>ZSC</b>		25	22.8	43.9	Premium acrylic coated shrink film for clear bundle (direct) wrap
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<b>ZNC</b>		20	18.2	54.9	Premium acrylic coated film for clear bundle (direct) wrap, proving easy opening feature with cost saving advantages
		25	22.8	43.9	
<b>TearTech</b>					

<b>ZSC</b>		25	22.8	43.9	Premium acrylic coated shrink film for clear bundle (direct) wrap, proving easy opening feature with cost saving advantages
<b>TearTech</b>					

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## Application Overview

Film Type	Soft Pack	Hard Box	Display Carton	Clear Bundle Wrap	Printable	TearTech Easy Opening
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### Non-Printable Overwrap Films – Non Shrink

<b>LEO</b>	●	●*	●			
<b>ZNA</b>	●	●*	●			

### Non-Printable Overwrap Films – Medium Shrink

<b>BEO</b>	●*	●	●			
<b>ZSA</b>		●	●			

### Non-Printable Overwrap Films – High-Shrink

<b>ZXA</b>		●	●			
<b>ZPA</b>		●	●			

### Printable Overwrap Films

<b>ZSD</b>	●*	●	●		●	
<b>ZXD</b>		●	●		●	

### Collation Bundle Wrap Films

<b>ZNC</b>				●	●*	●
<b>ZSC</b>				●	●*	●

\* Optionally usable

Detailed information on all Treofan tobacco film types, including the standard reel dimensions, are available upon request at [tobaccofilms@treofan.com](mailto:tobaccofilms@treofan.com).

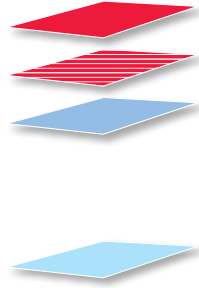
## Layer Description

### Surface layer

Heat sealable layer 125°C

Heat sealable layer 125°C, treated

Acrylic layer



### Core layer

Transparent layer



## Anti-Illicit Trade and Counterfeiting Policy

As a committed partner Treofan supports all activities of the tobacco industry to combat the illicit trade in tobacco products. For further information about our policy please check the download area on [www.treofan.com](http://www.treofan.com).

## Environment

Treofan tobacco films are largely unaffected by climatic influences but it should not be stored at temperatures above 30°C and 80% r.h. Moisture condensation should be avoided (especially relevant for coated films).

The rolls should be kept in their original packaging until used. After unpacking, rolls should be stored upright with suitable protection for the edges. Under these storage conditions, the film can be stored for a period of six months without any risk of deterioration. Treofan tobacco films should be allowed to acclimatize in the processing area for at least 24 hours prior to usage.

## Highest quality on a global scale

Our products meet the most stringent requirements for reliability, optimal machine running properties and quality.

Certified according to:

**DIN ISO 9001:2015**

**A.I.B.**

**BRC Packaging**

**DIN EN ISO 50001**

The figures and the data provided in this brochure are consistent with the current state of our knowledge and are intended to provide general information about 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.

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