

Product Catalogue









ZAKŁAD PRODUKCJI FOLII®

INTRODUCTION

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Innovations in the stretch films.

Global Leader.

ZPF Efekt Plus Sp. z o.o. is a polish manufacturer of stretch film using the CAST method. Many years of experience, qualified staff, the latest generation production lines and a well-equipped testing laboratory have allowed us to enter foreign markets, which has made us a respected and recognizable European brand.

Our offer includes manual films, including pre-stretch films, machine films, jumbo films and silage films. Please check our catalog, in which we present our current offer, as well as, our company and its history.

INTRODUCTION Company history 6 **PRODUCTS** 10 Technologies and refinements 12 Hand stretch films Pre-stretch films (Hand & Machine versions) 14 Food stretch film Foodsafe+ 15 Machine films & Jumbo films 18 PCR stretch film **Recowrap™** 22 Silage film AgroWrap® 26 **SOLUTIONS** Machine Park 28 Sustainable development policy 30

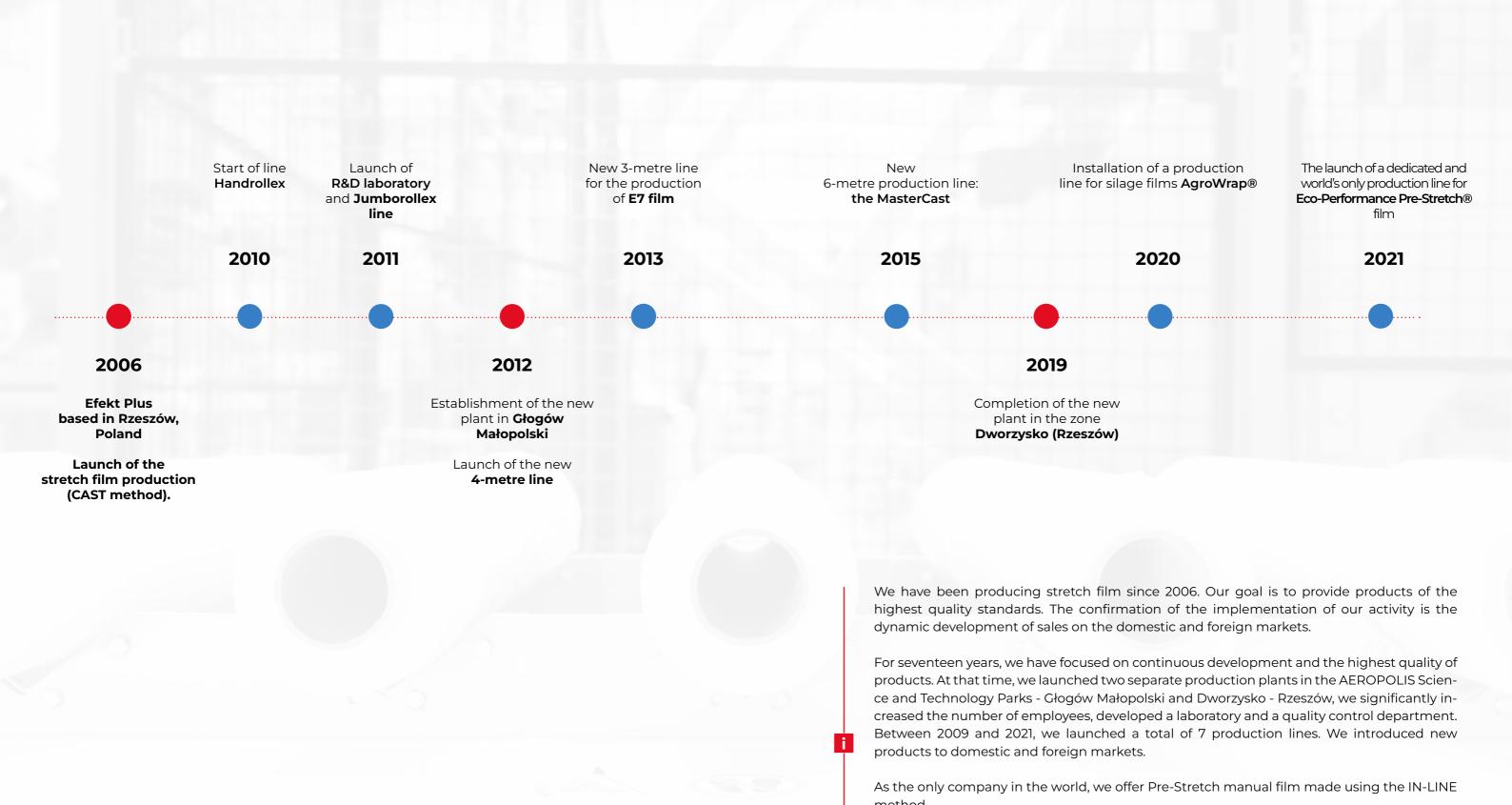


Company history



We also have a unique 6-meter production line for the production of stretch film using the

CAST method. It is the largest technological installation of this type in the world.





Technologies and refinements









Advanced machinery and many years of experience in the production of stretch film allow us to offer technologies that are unheard-of by other manufacturers. These are innovative solutions dedicated to specific types of film.

The availability of a particular technology must be confirmed directly with the Customer Service Department.





Technology mark	E7	Efekt Stretch Plus
Feature	7-layer environmental film	5-layer stretch film
Film type	Hand stretch / Machine stretch / Jumbo	Machine stretch /Jumbo
Properties	 High resistance to puncture and tear resistance Use of up to 30% regranulate during production Economical product 	 High resistance to puncture and tear resistance High stretchability Economical product
Colour	Transparent	Transparent
Quality Classes	Standard Power Intermediate	Standard

Available refinements

For customers requiring additional product options, we have prepared refinements:



OSC (High Slip)

Slippery films dedicated to the close storage of products. Prevents the phenomenon of "pallet sticking".



Frozen

Films resistant to low temperatures.



Food

Food safe films that may come into direct contact with it.



UΥ

The material shows increased resistance to UV radiation.



High Cline

Increased stickiness of the film, a solution dedicated to confectioners.



Product masking

The coloured films effectively conceal the contents of the cargo.



Available Refinements:



Hand stretch films are used for manual wrapping the loads.

We are able to produce manual film from 8 µm to 35 µm in thickness and widths of 250, 400, 450 and **500 mm**, depending on the Customer's needs.

Stretch film above 17 µm is used primarily to protect heavy goods such as bricks, paving stones or metal articles.

Thanks to fully automated production lines, it is possible to pack stretch film into boxes of 6 pcs.

	Hand
	25,7
1	

Thickness	8-11 µm	12 µm	15-35 µm
Width	250, 400, 450, 500 mm	250, 400, 450, 500 mm	250, 400, 450, 500 mm
Net weight	0,7 - 4 kg	0,7 - 4 kg	0,7 - 8 kg
Stretchability	120% - 200%	150% - 250%	150% - 300%
Colour	transparent	transparent	transparent, black*, white*, blue**

^{*}available in stretches from 150% to 250%,

^{**} available in stretches of 150%



Hand stretch films with extended core

Film with longer core for manual wrapping of loads

Hand stretch film with an extended core is dedicated to users who value ergonomics and quality.

It is a ready-to-use product directly after taking it out of the packaging - it does not require the use of dispensers and is very convenient to use. The extended core is an innovative feature of our product - it enables a firm grip and control over the film, allows for more secure and faster wrapping.

Our film is a guarantee of the highest quality and resistance to punctures and tears.

	Hand	
1		
		0

12

ı	Thickness	8-11 µm	12 µm	15-35 µm
l	Width	400 mm	400 mm	400 mm
	Net weight	0,7 - 2 kg	0,7 - 2,5 kg	0,7 - 4 kg
	Stretchability	120% - 200%	150% - 250%	150% - 300%
0	Colour	transparent	transparent	transparent, black*, white*, blue**

^{*}available in stretches from 150% to 250%,

Cores available:

weights

- · 2 inch x 470 mm with various
- 38 mm x 580 mm (Extended Core) with various weights 38 mm x 420 mm (non Extended Core) with various
- weights 2 inch x 520 mm with various

Small roll films - Mini Rap

Mini Rap stretch film is the smallest version of manual stretch film.

Often referred to as a mini roll, it is available in a variety of widths. Mini Rap films are used for wrapping and binding of loads of various sizes.

Stretch Mini Rap films are available in a universal version and for right and left handers. The advantage of the product is its small size and ease of use.



Thickness	8-35 µm	
Width	100, 125 mm	
Stretchability	120% - 250%	
Colour	transparent, black*, white*, blue**	

^{*}available in stretches from 150% to 250%, * available in stretches of 150%



^{**} available in stretches of 150%.



Hand & Machine Pre-stretch film

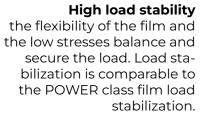


The **Eco-Performance Pre-stretch film** produced by **Efekt Plus** is the world's first pre-stretched film produced directly on the production line. Available in machine and hand version.

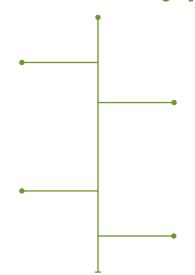
Pre-stretch is produced in a version with and without overlaps. The advanced technological process and carefully selected raw materials allow us to offer a product with high strength and performance parameters.



Why pre-stretch?







Easy to use

requires less force to stretch the film and wrap the goods, saving the worker time and energy.

Pro-ecological product

the use of pre-stretch film guarantees a reduction in film consumption which equates to less waste.

	Pre-s	stre	tch	
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Thickness	6-12 µm - Hand*	
Width	430**, 440, 450 mm	
Wrap	400 - 800 metres	
Colour	transparent	

Thickness	6-12 µm - Machine	
Width	430, 440 mm	
Wrap	1050 - 4250 metres	
Colour	transparent	

Stretch food film Foodsafe+

Available Refinements:





The Foodsafe+ stretch film is suitable for direct contact with foodstuffs. As a manufacturer of food film, the product parameters are supported by an appropriate certificate and declaration of conformity.

Foodsafe+ is available as manual stretch film, machine stretch film and jumbo stretch film, in transpa-



Hand food film

Thickness	8-11 µm	12 µm	15-35 μm
Width	250, 290, 400, 450, 500 mm	250, 290, 400, 450, 500 mm	250, 290, 400, 450, 500 mm
Net weight	0,7 - 4 kg	0,7 - 4 kg	0,7 - 8 kg
Stretchability	120% - 200%	150% - 250%	150% - 300%
Colour	transparent	transparent	transparent

	Jumbo food stretch film		
35	1		0

Machine &

Thickness	8-9 µm	10-11 μm	12 µm	
Width	250 - 2000 mm	250 - 2000 mm	250 - 2000 mm	
Net weight	5 - 25 kg (M) / 55 kg (J)	5 - 25 kg (M) / 55 kg (J)	5 - 25 kg (M) / 55 kg (J)	
Stretchability	120% - 180%	120% - 200%	150% - 250%	
Colour	transparent	transparent	transparent	



Machine &

Thickness	15-16 µm	17-23 μm	30-35 μm	
Width	250 - 2000 mm	250 - 2000 mm	250 - 2000 mm	
Net weight	5 - 25 kg (M) / 55 kg (J)	5 - 25 kg (M) / 55 kg (J)	5 - 25 kg (M) / 55 kg (J)	
Stretchability	150% - 300%	150% - 350%	150% - 370%	
Colour	transparent	transparent	transparent	

(M) - weight for machine film (J) - weight for Jumbo film

^{*}recommended thickness 7-9 µm

^{**}standard roll width





Machine & Jumbo Stretch films

Available Refinements:







Machine films are dedicated to all types of wrapping machines. They allow express and automated wrapping of loads. They are used in production and logistics companies.

Jumbo films are used by packagers to rewind stretch film onto smaller rolls - both for manual and machine wrapping.



Machine films

Thickness 8-9 µm		10-11 µm	12 µm	
Width	250 - 2000 mm	250 - 2000 mm	250 - 2000 mm	
Net weight 5 - 25 kg (for 500mm width)		5 - 25 kg (for 500mm width)	5 - 25 kg (for 500mm width)	
Stretchability 120% - 180%		120% - 200%	150% - 250%	
Colour transparent		transparent	transparent	



Thickness	15-16 µm	17-23 μm	30-35 μm	
Width	250 - 2000 mm	250 - 2000 mm	250 - 2000 mm	
Net weight	5 - 25 kg (for 500mm width)	5 - 25 kg (for 500mm width)	5 - 25 kg (for 500mm width)	
Stretchability	150% - 300%	150% - 350%	150% - 370%	
Colour	transparent, black*, white*	transparent, black*, white*, blue**	transparent, black*, white*, blue**	



Thickness	8-9 µm	10-11 µm	12 µm	
Width	290, 400, 450, 500 mm	400, 450, 500 mm 290, 400, 450, 500 mm 290, 400, 4		
Net weight	26 - 55 kg	26 - 55 kg	26 - 55 kg	
Stretchability	120% - 180%	120% - 200%	150% - 250%	
Colour	transparent	transparent	transparent	



Thickness	15-16 µm	17-23 μm	30-35 μm
Width	290, 400, 450, 500 mm	290, 400, 450, 500 mm	290, 400, 450, 500 mm
Net weight	26 - 55 kg	26 - 55 kg	26 - 55 kg
Stretchability	150% - 300%	150% - 350%	150% - 370%
Colour	transparent, black*, white*	transparent, black*, white*, blue**	transparent, black*, white*, blue**

Machine & Jumbo films

- guaranted stretchability

Standard + class shows increased puncture and tear resistance

Thickness	Standard	Standard+	Power	Super Power	Ultra
8 - 9 µm	NA	NA	150%	NA	180%
10 - 11 μm	120%	NA	150%	NA	200%
12 - 14 µm	150%	150%	200%	NA	250%
15 - 16 µm	150%	150%	200%	250%	300%
17 - 19 µm	150%	150%	250%	300%	325%
20 - 22 μm	150%	150%	250%	300%	335%
23 - 24 µm	150%	150%	250%	300%	350%
25 - 35 μm	150%	150%	250%	300%	370%

(NA - no available)

Intermediate classes:

Thickness	180%	200%	220%	280%
8 - 9 µm	NA	NA	NA	NA
10 - 11 µm	NA	NA	NA	NA
12 - 14 µm	180%	NA	NA	NA
15 - 16 µm	180%	NA	NA	280%
17 - 19 µm	180%	200%	220%	280%
20 - 22 μm	180%	200%	220%	280%
23 - 24 µm	180%	200%	220%	280%
25 - 35 μm	180%	200%	220%	280%

(NA - no available)





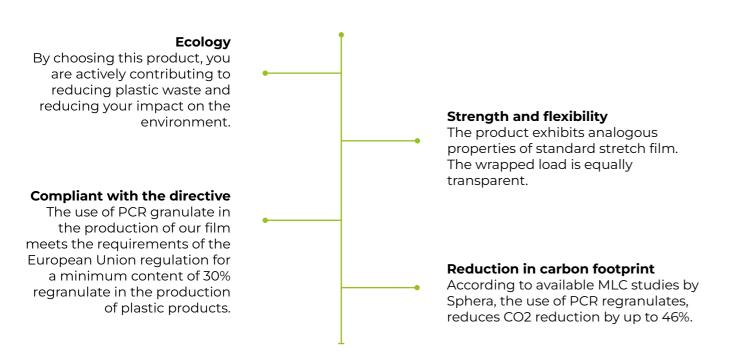


Stretch films based on post-consumer PCR regranulate. Available in Hand, Machine, Jumbo and Mini Rap versions.

Pro-environmental films produced using the closed economy method. They are characterised by properties analogous to standard stretch films. The minimum content of PCR regranulate is 30%.



Why Recowrap™?





Thickness	17-35 µm
Width	250, 400, 500 mm
Net weight	0,7 - 4 kg
Stretchability	Standard
Colour	transparent

Mini-Rap

Thickness	17-35 µm
Width	100, 125 mm
Net weight	ND
Stretchability	Standard
Colour transparen	



Thickness	17-35 µm
Width	250, 400, 500 mm
Net weight	5 - 25 kg (for 500mm width)
Stretchability	Standard
Colour	transparent

Jumbo films		
	0	
	300	

Thickness	17-35 µm	
Width	400, 500 mm	
Net weight	26 - 55 kg	
Stretchability	Standard	
Colour	transparent	

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Film production based on PCR regranulation





Silage film **AgroWrap**®

The silage film available under the **AgroWrap®** brand is produced using high-quality raw materials to meet all customer requirements and expectations.

Numerous researches on the Silage film allowed to obtain a product that has high quality and strength parameters.



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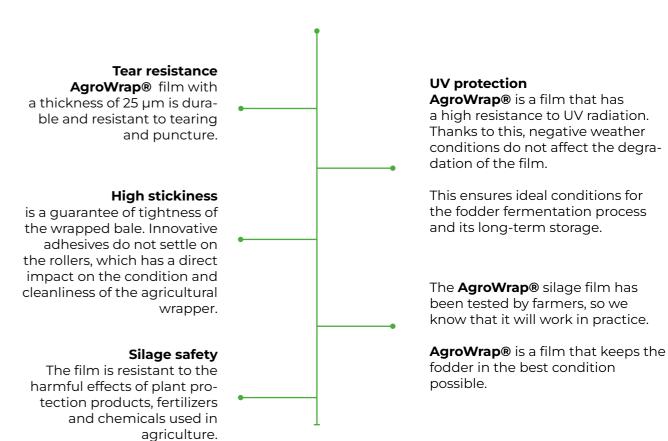
Width	500 mm	750 mm
Thickness	25 µm	25 µm
Wrap	1800 meters	1500 meters
Net weight	21,5 kg	27,0 kg
Sleeve diameter	3"	3"
Sleeve type	paper - hydrophobic	paper - hydrophobic
Colour	white, green	white, green



Width	500 mm	750 mm
Type of packaging	Special cardboard box (with instruction manual included)	
Number of rolls on a pallet	48	40
Pallet height	1,73 m	1,70 m
Pallet size	110 x 130 cm	110 x 130 cm



Why AgroWrap®?











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