



EFFICIENT SILAGE FILM  
RECYCLED AND  
RECYCLABLE



### COMMITMENT MEANS ACTION

WE ARE CONVINCED THAT WE ALL HAVE A ROLE TO PLAY IN THE SUSTAINABLE TRANSITION AND WE HAVE BEEN ACTING ON THAT FOR THE LAST 35 YEARS. WE BELIEVE THAT A COMMON AND CONCRETE APPROACH IS THE KEY TO IMPROVE FOR BOTH, YOU AND THE ENVIRONMENT.

### RESPONSIBLE PRODUCTION MEANS INNOVATION

THE GOALS FOR OUR DEVELOPMENT ARE CLEARLY DEFINED: WE WANT TO PRODUCE HIGH-QUALITY SILAGE FILMS THAT DO NOT ONLY ENABLE EXCELLENT SILAGE QUALITY, BUT ALSO - THROUGH THE USE OF RECYCLED MATERIAL - UNITE SUSTAINABILITY AND INNOVATION

### GUARANTEEING RESPONSIBLE QUALITY MEANS GOING EVEN FURTHER

FOR US, DESIGNING ENVIRONMENTALLY SUSTAINABLE SOLUTIONS AND MEETING YOUR NEEDS AND REQUIREMENTS BY OFFERING HIGH QUALITY PRODUCTS ARE INSEPARABLE.

COLLABORATING TOGETHER WITHOUT COMPROMISE FOR TOMORROW IS THE CHOICE OF SUSTAINABLE QUALITY.





# OUR RANGE

RECYCLED AND 100% RECYCLABLE

	TRIOBLACK Classic	TRIOCARE Premium	TRIOSUN High performance	TRIO2 Very high performance
Colours	●	● ● ● ○	● ● ● ○	●
Thickness	150μ - 180μ	150μ	110μ - 115μ	115μ
Width	6 - 18m	4 - 18m	6 - 18m	6 - 18m
Length	25 - 50m	25 - 400m	30 - 400m	50 - 300m
Resistance (DART)	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
Airtightness OTR	● ● ○ ○ ○	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ○
Handling	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●
UV resistance	12 months	18 months	24 months	24 months
Recycled content (PCR)	>91%	>89%*	>51%*	> 57%
Recyclability	100%	100%	100%	100%
Life Cycle Assessment (LCA)	-87%	-79%	-54%	-31%
Product certification	Blue Angel & RecyClass	Blue Angel & RecyClass	RecyClass	RecyClass

	TRIOTECH Underlayer film	TRIOWALL walls protection film
Colours	●	●
Thickness	40μ	120μ
Width	4 - 18 m	2 - 7m
Length	50 - 400m	100m
Recycled content (PCR)	>84%	> 98%
Recyclability	100%	100%
Life Cycle Assessment (LCA)	- 55%	Coming soon
Product certification	Blue Angel & RecyClass	Coming soon

\*PCR content can vary according to colors, please refer to product page to have more detailed information.





# TRIOBLACK™

## CLASSIC FILM

The must-have of the range. Trioblack meets all the requirements for the forage conservation as well as for all application on the farm. This product has been on the market since 1987!

The Trioblack range has been certified Blue Angel and RecyClass.

Colours	●
Thickness	150µ - 180µ
Length	25 - 50m
Width	6 - 18m
Resistance (DART)	● ● ● ○ ○
Airtightness (OTR)	● ● ○ ○ ○
Handling	● ● ● ○ ○
UV resistance	12 months
Recycled content (PCR)	>91%
Recyclability	100%
Life Cycle Assessment (LCA)	-87%
Product certification	Blue Angel & RecyClass



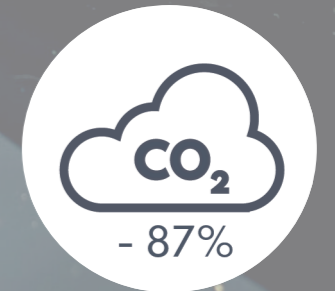
[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)

Certified by RecyClass

91 % RECYCLED PLASTIC

*«If they hadn't told me it was 91% recycled material, I would never have noticed the difference.»*

*Joël, Farmer in France.*





# TRIOCARE™

## PREMIUM SILAGE FILM

Triocare is the Premium film within the Triosilo portfolio. It offers an increased resistance to UV and is available in four colors and a wide range of sizes, which makes it the perfect solution for all different kinds of requirements.

The Triocare range is Blue Angel and RecyClass certified.

Colours	● ● ● ○
Thickness	150μ
Length	25 - 400m
Width	4 - 18m
Resistance (DART)	● ● ● ○ ○
Airtightness (OTR)	● ● ● ○ ○
Handling	● ● ● ○ ○
UV resistance	18 months
Recycled content (PCR) Black/Black	91%
Recycled content (PCR) Black/Green	89%
Recycled content (PCR) Black/White	89%
Recycled content (PCR) White/White	90%
Recyclability	100%
Life Cycle Assessment (LCA)	-79%
Product certification	Blue Angel & RecyClass



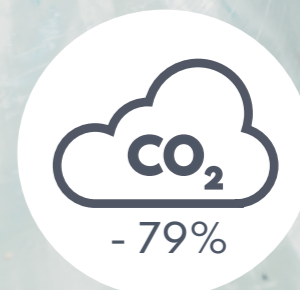
[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)

Certified by RecyClass

89% RECYCLED PLASTIC

### TRIOSILO Tips :

If the light color is facing towards the outside, it reduces the temperature rise and the thermal expansion of the film. Thermal expansion affects the permeability of the film.





# TRIOSUN™

## HIGH PERFORMANCE SILAGE FILM

A high-performance film that not only makes handling easier thanks to its reduced weight, but is also a more sustainable alternative thanks to its minimum of 51% PCR.

The enhanced UV protection up to 24 months and the available assortment up to 400 meters lengths make this film particularly interesting for large dairy farms.

The Triosun range is RecyClass certified since 2021. The rate of recycled content depends on the color of the film, so each composition has been individually certified.

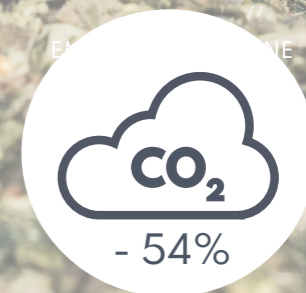
Colours	● ● ● ○
Thickness	110-115μ
Length	30 - 400m
Width	6 - 18m
Resistance (DART)	● ● ● ● ○
Airtightness (OTR)	● ● ● ○ ○
Handling	● ● ● ● ○
UV resistance	24 months
Recycled content (PCR) Black/Black	69%
Recycled content (PCR) Black/Green	68%
Recycled content (PCR) Black/White	51%
Recycled content (PCR) White/White	64%
Recyclability	100%
Life Cycle Assessment (LCA)	-54%
Product certification	RecyClass



Certified by RecyClass  
**51 %** RECYCLED PLASTIC

**«Very easy to apply, I didn't see any difference comparing it to the virgin silage film I usually use.»**

*Patrick, farmer in France.*





# TRIO2™

## VERY HIGH PERFORMANCE SILAGE FILM

Sustainable innovation dedicated to forage conservation. TriO2 is a semi barrier film with the highest resistance ever achieved in 115µ made of 57% post-consumer recycled (PCR). TriO2 a semi-barrier film with very high strength, that is also 100% recyclable. Thanks to being thin, flexible and light, this film adjusts perfectly to the plant material in the silo.

Colours	●
Thickness	115µ
Length	50 - 300m
Width	6 - 18m
Resistance (DART)	●●●●●
Airtightness (OTR)	●●●●○
Handling	●●●●●
UV resistance	24 months
Recycled content (PCR)	>57%
Recyclability	100%
Life Cycle Assessment (LCA)	- 31%
Product certification	RecyClass



Certified by RecyClass  
57% RECYCLED PLASTIC

**«The improved barrier effect was quickly visible by the bubble that appeared under the film after application.»**

*Martial, farmer in France.*





# TRIOTECH™

## THE ECO-FRIENDLY UNDERLAYER

Thin and eco-designed, Triotech is made of 84% post-consumer recycled waste (PCR).

The use of the underlayer is systematically recommended in order to limit oxygen migration as much as possible and to optimize the efficiency of your silo.

The Triotech range is certified Blue Angel and RecyClass.

Colours	●
Thickness	40μ
Length	50 - 400m
Width	4 - 18 m
Recycled content (PCR)	>84%
Recyclability	100%
Life Cycle Assessment (LCA)	- 55%
Product certification	Blue Angel & RecyClass



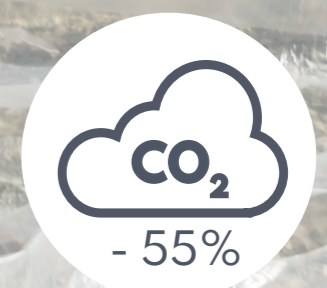
[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)

Certified by RecyClass

**84 % RECYCLED PLASTIC**

### TRIOSILO Tips :

The Triotech underlayer film can be unfolded at the same time as the other Triosilo silage sheets to simplify the application.





# TRIOWALL™

## PROTECTS YOUR SILO WALLS

A side wall film does not only contribute to better sealing of your feed by minimizing air ducts and water ingress, it also protects your silo walls from fermentation juices and thus makes them more durable.

Simple, efficient, eco-designed, recycled and recyclable - Triowall.

Colours	●
Thickness	120μ
Length	100m
Width	2 - 7m
Recycled content (PCR)	> 98%
Recyclability	100%
Life Cycle Assessment (LCA)	Coming soon
Product certification	Coming soon

### TRIOSILO Tips :

Folding the Triowall cover over the silo before closing, improves the air-tightness of the edges.





# SUSTAINABLE RESPONSIBILITY

## HOW DO WE ACT?

### BY MEASURING THE CLIMATE IMPACT OF EACH PRODUCT...

Life Cycle Assessment (LCA)\* is a method for quantifying each stage of a product life in CO2 equivalent.

The impact is expressed in reduction of CO2 equivalent while comparing our Triosilo products vs. standard product, made of virgin raw material, in the market.

\*LCA done by the Simapro 2022 certified tool.



### ...AND BY CERTIFYING OUR PRODUCTS



[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)

Blue Angel requires a minimum of 80% post consumer recycled material (PCR) in the products.

RecyClass



RecyClass certifies the percentage of post consumer recycled raw material used in the product and the tracking system in the process.

# TRIOWORLD GROUP



Our head office is located in Smålandsstenar, Sweden, we run 15 production sites all over Europe. Our silage films are designed, tested and extruded in our manufacturing plant in France.

The French factory is divided into two areas: a recycling workshop and an extrusion workshop for silage film, bale wrap and refuse bags. In the recycling area, new raw material is produced from plastic waste, which we can then directly use in the manufacturing of our Triosilo films.

More than 100 people work closely together with partners, all with the same objective: designing, manufacturing, testing and delivering high-quality and sustainable films.

### OUR PRODUCTION SITE IS ISO CERTIFIED



ISO standards certify the quality of our processes. ISO 9001 and 14001 certify the quality and the management of our environmental commitment within the factory.



# OUR FARMERS

## PARTNERS HAVE TESTED IT

We have run silage conservation studies with five partner farms in the West of France.

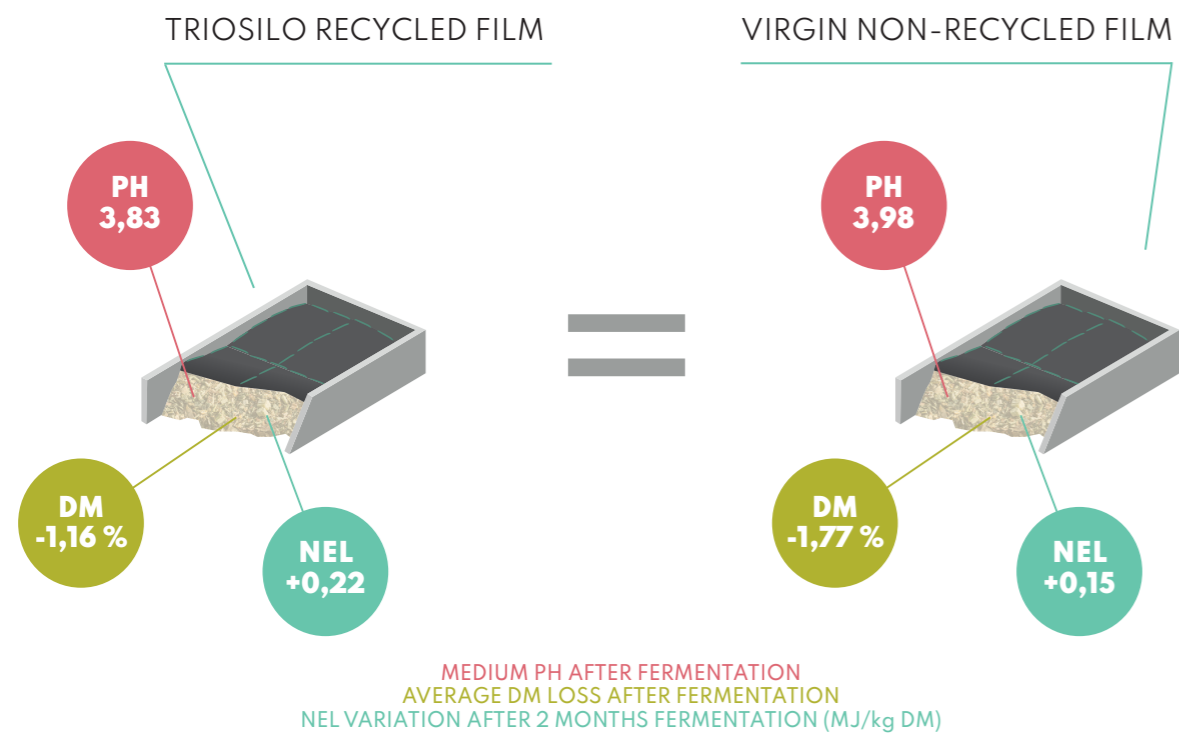
The purpose of this study was to analyze the forage of silos covered with Triosilo silage sheet incorporating post-consumer recycled material (PCR) versus silage film made from virgin material only.

### Study protocol:

On the same corn silage, we used in each farm a Triosilo silage film and a silage sheet without recycled raw material.

Thus, we carried out our study on 15 silos and took a single point of analysis before and after two months of fermentation.

The results show similar performances with the use of recycled silage film compared to virgin silage film and this under the same conditions of harvests, settling and closing of the silo.





## Efficient & sustainable silage making

We know the hazards and challenges of the harvest season and we can support you with our many years of experience. If you need help, our silage experts and technical support team is there to support you to improve your yield, efficiency and sustainability in your silage making - all over the world.

Find out more on [triosilo.com](http://triosilo.com)



Follow us on Facebook et Instagram  
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APE Europe objective is to improve agri-waste recycling rate by the implementation of national collecting Schemes all over Europe.