



**Seal**  
**plus**



# EVOH Oxygen Barrier

film series that  
protects your silage



FROM 2GAMMA THE INVENTOR OF OXYGEN BARRIER SILAGE FILM

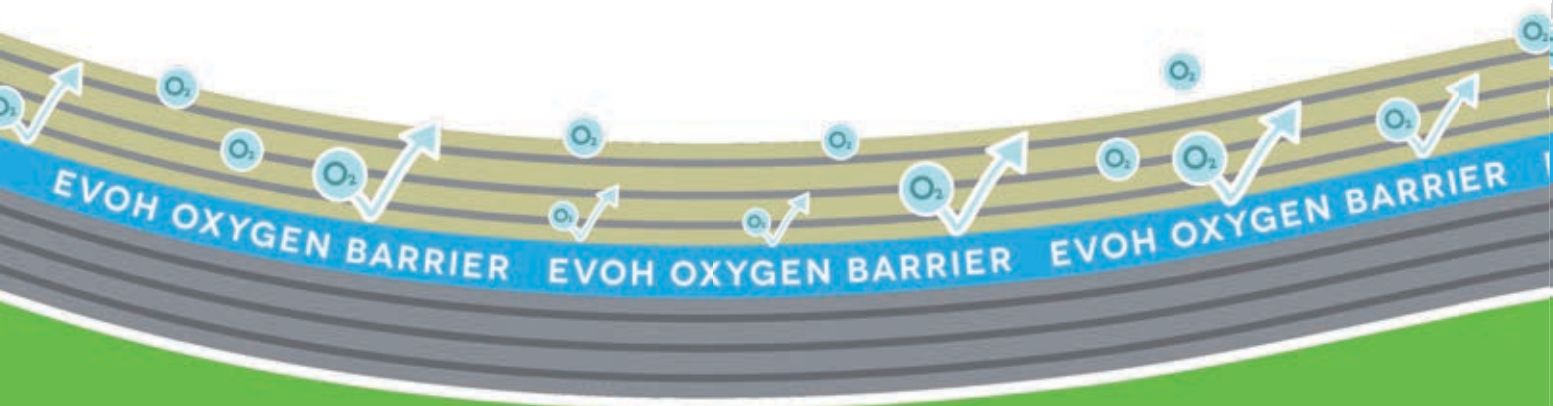
# Oxygen Barrier technology

The SealPlus films aim to defend your silage stopping the oxygen transpiration, the main responsible of spoilage of the product. The SealPlus Oxygen Barrier Film offer a better conservation, less waste, a higher quality of the products and consequentially a tremendous improvement of the animals' welfare and a raising of their productivity.

The SealPlus Oxygen Barrier Films series is composed of multilayers films with EVOH oxygen barrier, produced with high quality virgin raw material. Thanks to that, they are lightweight and highly resistant, very easy to lay on top of the bunker, with a perfect adhering to the silage.

Laboratory Tests	Traditional PE Film	OXYGEN TRANSMISSION RATE LABORATORY TESTS 23° 0% RH				SealPlus SealPlus Oxygen Barrier Film
	45 µm	4000	Cm³/m²/ 24 h	5		45 µm
			Cm³/m²/ 24 h	5		90 µm
	180 µm	1000	Cm³/m²/ 24 h	5		150 µm

Field Tests	Traditional PE Film	OXYGEN TRANSMISSION RATE 40° 65% RH				SealPlus SealPlus Oxygen Barrier Film
	45 µm	12000	Cm³/m²/ 24 h	95		45 µm
			Cm³/m²/ 24 h	70		90 µm
	180 µm	3000	Cm³/m²/ 24 h	48		150 µm





**TRADITIONAL FILM BLACK AND WHITE IN PE 180µm**



**SEALPLUS OXYGEN BARRIER FILM 45 µm**

**210**



**20%**

Dry matter loss, underneath first 50 cm film ( kg/m<sup>3</sup> ).

Manpower reduction cost for removal of spoiled silage.

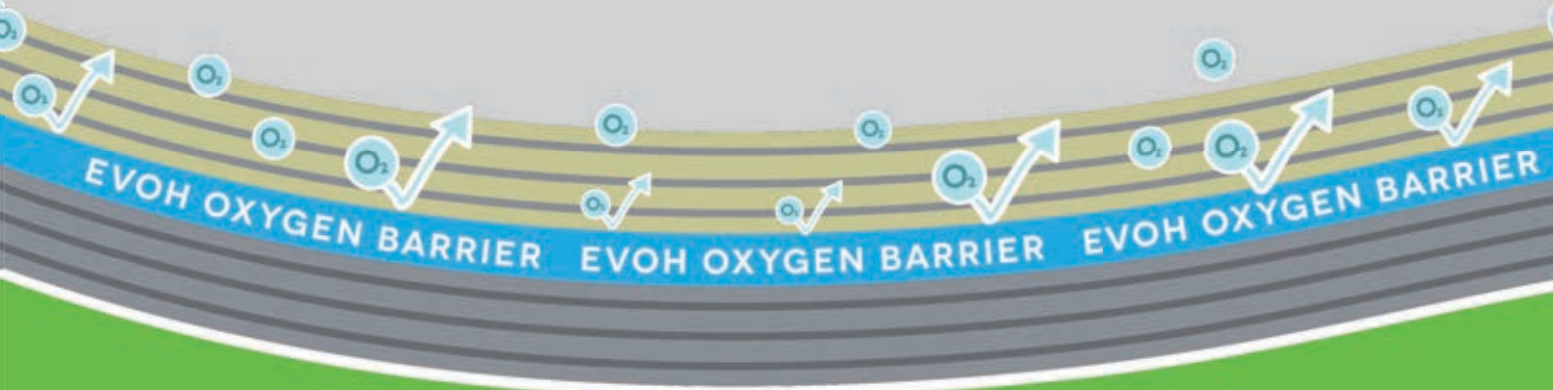
Reduction of clostridium mold and toxines.

Forage loss up to

**45**



**5%**



# SealPlus is high technology and scientific research, a worldwide patent for farmer support.

SealPlus Oxygen Barrier Films stop the oxygen transpiration assuring an excellent final product. By the opposite, the PE films allow oxygen transpiration, main responsible of the spoiling of the product silage and/or wrapped.



## Oxygen Barrier

Thanks to the EVOH oxygen barrier, SealPlus assures a relevant decreasing of oxygen transpiration reducing the raising of mold and toxins .



## Sun Resistance

The SealPlus 90 and 150µm are resistant to the sun rays even to the high exposition up to 700kly, assuring a complete protection to your silage.



## Mechanical Protection

The SealPlus films assure a high mechanical resistance due to the innovative technologies and thanks to high quality raw material used.



## More Quality

The full SealPlus Oxygen Barrier Film series are produced in Italy with the maximum quality of the productive standards and in accordance with the rules and laws in use.



## More Comfort

The improvement of the quality of the ration, due to a better quality of the silage, increases the animal welfare.



## More Productivity

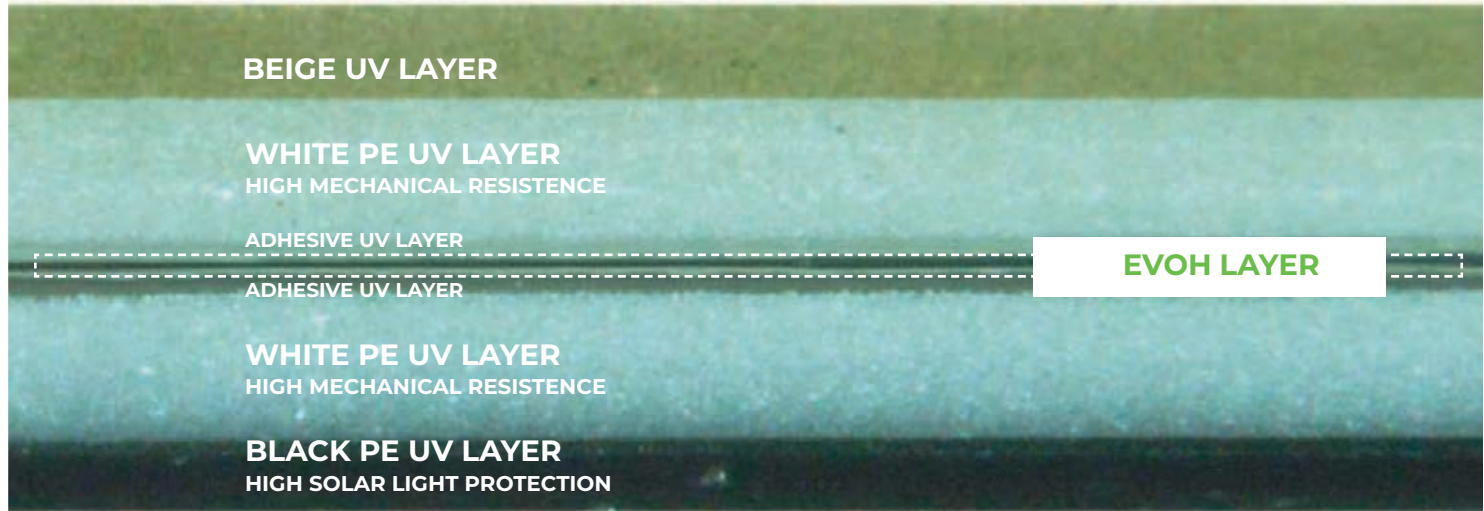
A better forage quality means a production increasing.



## 100% Recyclable

SealPlus is made of raw materials totally recyclable.

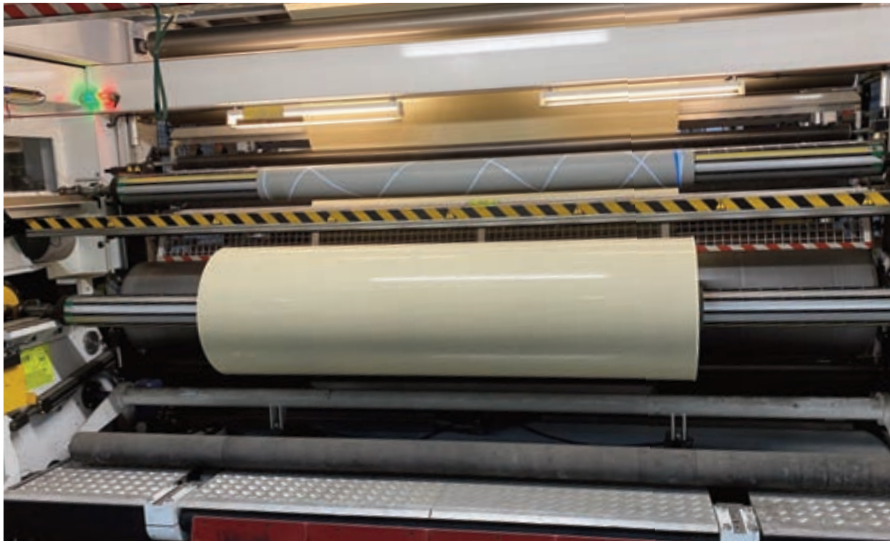
# SealPlus 90μm Beige/Black under a microscope (x1000)

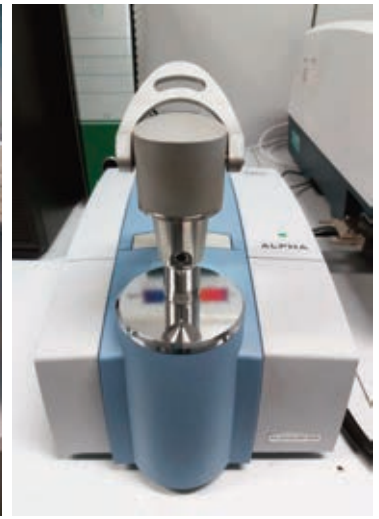


# How is made SealPlus

Production is organised over 10.000 sq m with modern extrusion, lamination and welding system.

The ability to process different families of polymers such as polyethylene, polypropylene, polyamide and EVOH allows us to produce infinite formulations to create materials with distinctive characteristics and properties.





# The SealPlus Quality

**The SealPlus quality borns in our own laboratory.**

All the products are tested in real time: Every production lot is tested for physical resistance, mechanical stress and simulated aging by UV exposition

All the analysis are filed in a single database in order to guarantee the highest level of traceability. All these efforts are directed in only one direction: to produce best oxygen barrier film for protection of your silage.





## Traditional coverage and weightiness systems

A lot of work and danger for the operators on having placed and to remove gravel, sand, land, tiers, etc ...

And these systems do not always maintain the perfect silage due to the holes caused by the stones or the sharp corners of the tiles.

Less work, clean trench and perfect silage with the SealPlus system!



# The SealPlus film series

**Rolls length  
up to 600 m**

**Rolls width  
from 4 to 80 m**

**EVOH  
OXYGEN BARRIER**

## SealPlus has different solution to suite all needs

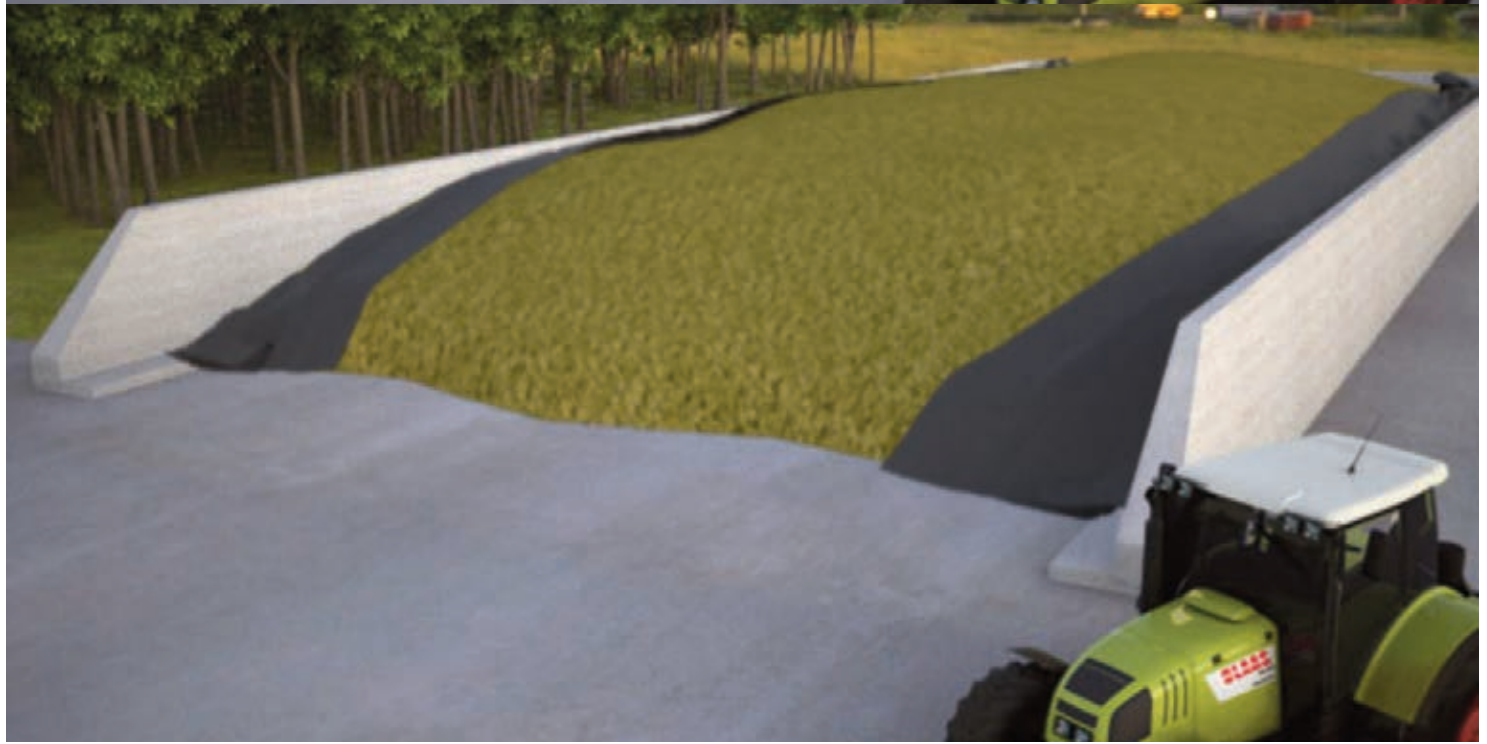
Your silage protection pass through the film ability to adapt itself at the different bunkers configuration. The SealPlus Oxygen Barrier Film are produced with high quality materials in a wide range of different length and width, thanks to the **double welding line technology**, to offer you the maximum protection and minimum material waste.



## SealPlus Wall Barrier 110µm

SealPlus Wall Barrier 110µm is a **EVOH oxygen barrier multilayers film** designed for perfect covering of the silage bunker walls. With protection of the silage from moisture, coming from the concrete walls, it is possible to get a sensible reduction of forage waste and a better conservation of the bunker walls.







## SealPlus Underlay 45µm Beige

SealPlus Underlay 45µm beige is a multilayers film with **EVOH Oxygen Barrier** very lightweight and highly resistant, with a perfect adhering at the product, assuring a optimal protection of your silage. SealPlus 45µm needs protection from the sun and mechanical accident. It can be used a normal PE black and white film or better, its dedicated Silosat net.



## Silosat 200g e 230g close net

We suggest the use of Silosat 200g to protect the SealPlus Underlay 45 µm from **sun rays, UV and mechanical accident**. Respectively 500kLy and 700kLy.



## SiloBag

Ballast bags 120x27cm. Three handles for better use.





## SealPlus Film 90µm Beige/Black

SealPlus Film 90µm is a **Anti UV multilayers film with EVOH Oxygen Barrier**, lightweight and highly resistant that make easier the laying on top of the silage. SealPlus 90µm can be used with Silonet canvas. The two products assure a perfect protection of your silage.



## Silonet 220g open net

We suggest the use of Silonet open net 220g to protect SealPlus 90µm from **mechanical accident**.



## SiloBag

Ballast bags 120x27cm. Three handles for better use.





## SealPlus Film 150µm Beige/Black

SealPlus Film 150µm Black/White SealPlus 150µm black and white is a multilayers **AntiUV** film with **EVOH oxygen barrier** extremely resistant to sun ray and mechanical shock. Due to its own peculiarities it is possible to lay it in one step saving time and manpower costs.



## Silonet 220g open net

We suggest the use of Silonet open net 220g to protect SealPlus 150 µm from **mechanical accident**.



## SiloBag

Ballast bags 120x27cm. Three handles for better use.



# SealPlus Gold Stretch 25µm

Thanks to continuous research and development we have created the first stretch with **oxygen barrier**. It is a material that combines advantages of the oxygen barrier with strength, constant performances and durability. It is possible to use with square and round bales and it is possible to use for any forage wrapping. SealPlus Gold Stretch 25µm can be used with all kind of wrappers and it is available in 25, 50, 75 cm width.

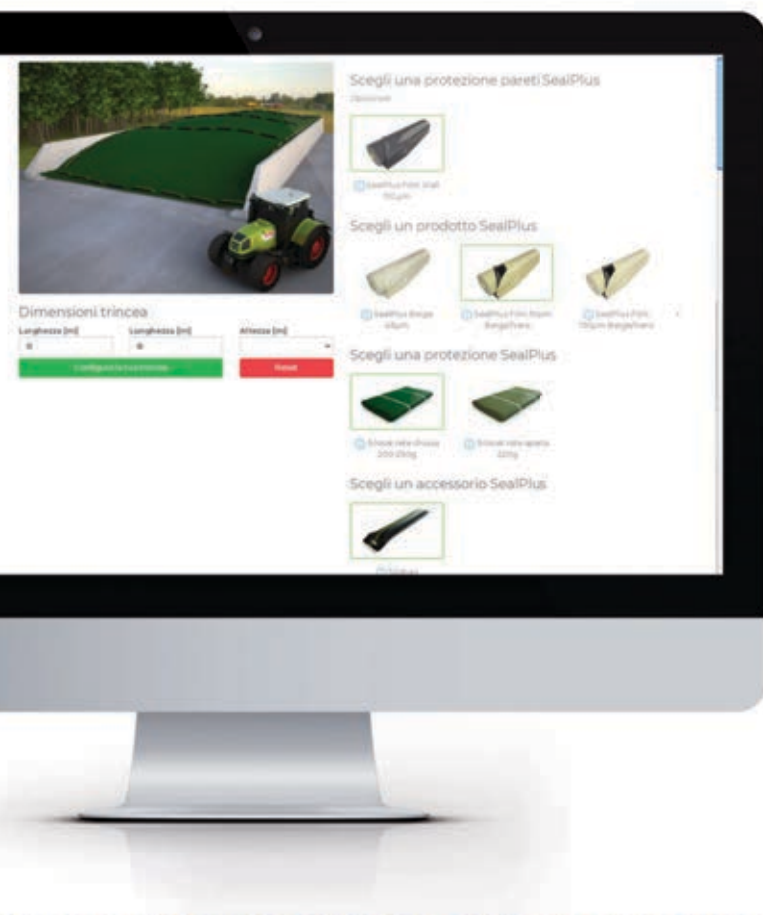
**Thanks to the oxygen barrier and 4 layers technology**, we assure a perfect conservation of your silage. SealPlus Gold Stretch can be combined with traditional stretch film by wrapper that use two or three rolls.





Sealplus is a 2Gamma product, a leading company in the sector of technical films and composite materials. Production is organized on 18,000 square meters with state-of-the-art extrusion and welding systems, able to satisfy every application requirement.





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Get all the benefits from  
your silage bunker configuration  
**with our web site**  
**[www.sealplus.com](http://www.sealplus.com)**

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