

*Smart packaging  
solutions*



[raniplast.com](http://raniplast.com)

## **RANI SILAGE PRODUCTS**



*Leading producer of agricultural films*



# PROFITABILITY WITH RANI PLAST PRODUCTS

Rani Plast is one of the world's leading producers of agricultural films. Our high- strength films, highly resistant to punctures and manufactured from high quality resins, protect and preserve your winter forage.

Looking to the future, we recently invested over 25 million euros in our agricultural films business. New 7- layer and 5- layer production technology has been installed in the Bjölas production facility. Our new 22 meter silage sheet line is one of the largest in the world. A combination of the latest technology and raw materials ensures our long term presence.



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# Rani BIND

## *Tightening the bale with plastic*

RaniBind is a net replacement film that can be used instead of conventional netwrap.



### **RaniBind's properties**

RaniBind adds extra layers of film to the bale and improves the oxygen barrier, resulting in silage of higher quality.

RaniBind and the wrapping film are manufactured from the same raw material, so can be recycled simultaneously.

RaniBind is available in widths of 1280, 1380 and 1400 mm.

- Easy to recycle, as the two products are derived from the same raw material.
- Improved conservation process.
- Less labour-intensive: there is no need to separate the net and film when opening the bales.



### **Technical specification**

**Material:** LDPE

**Colour:** White



# Rani wrap

## *Superior performance*

RaniWrap is recognised and appreciated worldwide as the first choice in multi-layer stretch films for bale wrapping.



### **RaniWrap's properties**

RaniWrap's excellent wrapping properties have been improved continuously since the 1980s. It remains the toughest and most resistant bale wrap on the market.

Stringent quality controls in the factory and field ensure its consistent quality.

- Made from the best raw materials available.
- Improved tack and UV protection.
- Consistent high-quality.
- The box is easy to open.
- Available in an Easy Pack version, with 20 rolls per pallet.



### **Technical specification**

**Material:** LDPE with UV stabiliser

**Colour:** White, natural green, green, and black



**Rani**  
**wrap**  
**Xtra**



**Rani**  
**wrap**  
**Easy pack**



**Rani**  
**wrap**  
**Xtra Easy Pack**

### *Designed for modern wrappers*

RaniWrapXtra is an environmentally-friendly packaging solution for professional use and modern wrappers. RaniWrapXtra offers longer reel lengths, more bales per reel, and fewer reel changes.



#### **RaniWrapXtra's properties**

- Fewer reel changes.
- Lower cost of plastic per bale.
- Available in 1700 m - 22 microns.



#### **Technical specification**

**Material:** LDPE with UV stabiliser  
**Colour:** White and natural green

### *The ecological packaging option*

RaniWrap and RaniWrapXtra are available in an Easy Pack version, in which 20 rolls are packed on a pallet without a box. There is less packaging material to be disposed of, and the rolls can be handled faster.



#### **RaniWrap Easy Pack's properties**

- Less packaging material.
- Easy to use.
- 20 rolls per pallet.
- Rani Wrap Easy Pack is available in 1500 m - 25 microns.
- RaniWrap Xtra Easy Pack is available in 1700 m - 22 microns and 1900 m - 21 microns.



#### **Technical specification**

**Material:** LDPE with UV stabiliser  
**Colour:** White and natural green



# RaniRepel

## Pest-repellent bale wrap

RaniRepel is a multi-layer bale wrap containing nontoxic and ecological repellents against birds and rodents.



### RaniRepel's properties

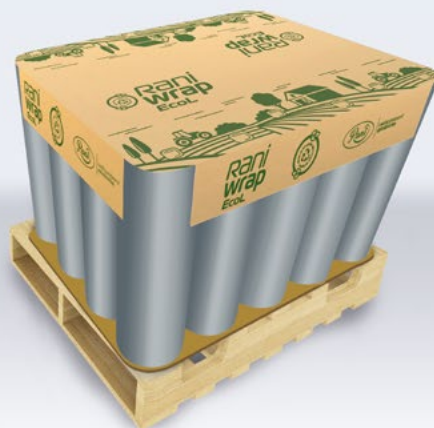
- Has undergone extensive field trials throughout Europe.
- Effectiveness as repellent proven in various field tests.
- Harmless to animals and the environment.
- Repellent effect is achieved through odour and taste.
- Award-winning concept.
- Effective up to 24 months from date of production.



### Technical specification

**Material:** LDPE with plastic core

**Colour:** Light green



# RaniWrap EcoL

## 30% recycled raw material

RaniWrap EcoL has a reduced carbon footprint, since it is manufactured with a minimum of 30% recycled material. The wrap has excellent resistance to tears and punctures and good stretchability without compromising on performance.



### RaniWrap EcoL's properties

- Has undergone extensive field trials throughout Europe.
- Recycled material originating from a closed loop process.
- Carbon footprint reduction of 20%, compared with traditional bale wrap.
- Available in an Easy Pack version, with 20 reels on a pallet.
- Contains 80% less cardboard packaging material.



### Technical specification

**Material:** LDPE with UV stabiliser and cardboard core

**Colour:** Grey



**Rani  
Wrap**  
32Pro



**AGRI  
Wrap**

### *For professional bale wrapping*

RaniWrap32Pro has been developed for demanding wrapping applications.



#### **RaniWrap32Pro's properties**

RaniWrap32Pro is suitable for the professional wrapping of haylage and other types of demanding silage, such as maize and alfalfa.

- Developed for demanding wrapping applications.
- 32 micron, 1200 m film for added strength.
- Better bale handling properties.
- Strong holding force for tighter bales.
- Extreme puncture resistance.
- Time-saving.



#### **Technical specification**

**Material:** LDPE with UV stabiliser  
**Colour:** White and natural green

### *High quality agricultural stretch wrap*

AgriWrap is a multi-layer stretch film suitable for traditional bale wrapping. The mechanical properties of the film ensure trouble-free use.



#### **AgriWrap's properties**

- Optimised formula and layer construction.
- Better seal for better silage quality.
- Consistent quality for reliable bale wrapping.
- High resistance to tears and punctures.



#### **Technical specification**

**Material:** LDPE with UV stabiliser  
**Colour:** White, natural green, and black



# Rani BIND

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
1280	1650	20	25	White
1280	2000	17	25	White
1380	2000	17	25	White
1400	1650	20	25	White

# Rani wrap

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1500	25	40	White, nat.green, green, black
500	1800	25	48	White, nat.green, green, black

# Rani wrap Easy pack

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1500	25	20	White, nat.green, green, black

# Rani wrap Xtra

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1700	22	40	White, nat.green

# Rani wrap Xtra Easy pack

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1700	22	20	White, nat.green
750	1900	21	20	White, nat.green

# Rani Repel

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1500	25	20	Light green

# Rani wrap EcoL

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1500	25	20	Grey

# Rani wrap 32Pro

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1200	32	40	White, nat.green

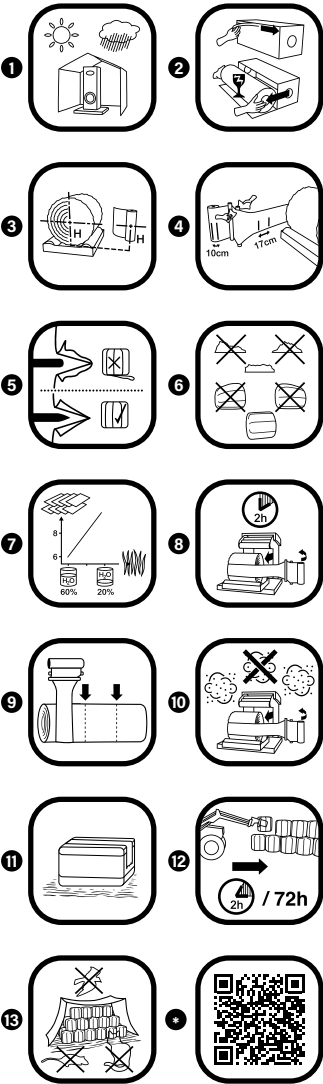
# AGRI wrap

Width (mm)	Length (m)	Thickness µm	Reels/pallet	Color
750	1800	25	40	White, nat.green, black
500	1500	25	48	White, nat.green, black

## TIPS FOR BALE WRAPPING

1. Store the plastic film rolls upright in their original packaging in a dry place and out of direct sunlight.
2. Our high- quality boxes provide the reels with complete protection. The box has a zip opening, ensuring the carton remains in one piece.
3. Ensure the centre of the stretch unit is aligned with the centre of the bale. This applies to both round and square bales. Poor overlapping and a consequent loss of feed quality may occur if the alignment is not correct.
4. The stretch unit should be clean and in good condition. Do not over-stretch the film as it may create a poor overlap. You can check the stretch by drawing stripes at 10 cm intervals on a film. Pull the film through the stretch unit. A distance of 17 cm between the stripes indicates a 70% stretch.
5. Take good care of your cutting device and check it regularly. If it is blunt or otherwise damaged, it will cause long tails. Replace it if necessary.
6. Ensure the swath is rectangular and uniform in shape, for well-pressed bales with a minimum volume of oxygen.
7. A minimum of six layers of film will typically ensure one year's preservation of dry matter content up to 50 %. A higher dry matter content requires more layers.
8. We advise wrapping pressed bales within two hours. Unwrapped bales will heat up slowly, resulting in a loss of silage quality.
9. Apply additional layers of plastic to support the two bales' joints when using a tube-liner.
10. We do not recommend wrapping in dusty environments, as dust can build up between the layers. This could affect the tack and, ultimately, the silage quality.
11. To minimise the risk of water getting between the layers in square bales, ensure that the last layer is on the top side of the bale. Water pockets may be created if the last layer is wrapped at the side of the bale.
12. The bales should be moved to their final storage immediately, within two hours, or after 72 hours after wrapping. Bales must be used within 12 months of the date of wrapping.

13. To avoid birds attacking your bales, stack them as fast as possible and cover them with a protective net.



\*For more information please use this QR Code or visit: [www.raniplast.com](http://www.raniplast.com).



For any further questions, do not hesitate to contact our experienced team!



# Rani SIDE

## Professional wall protection

RaniSidewall improves the silage quality in concrete walled bunkers.



### RaniSidewall's properties

RaniSidewall prevents oxygen from permeating the walls and damaging the silage. The film also protects concrete walls from the acids which can be produced during fermentation.

The width of RaniSidewall should be twice the height of the wall. This allows for the film to be folded over the shoulder of the clamp, protecting the most sensitive part of the clamp.

- Prevents oxygen from permeating the walls and entering the silage.
- Protects the walls against acids.
- Extra barrier and protection for the shoulders of the clamp.



### Technical specification

**Material:** LDPE  
**Colour:** Black



# Rani COVER

## Added protection for your silage

The main purpose of an underlay film is to minimise the volume of air between the silage sheet and the silage itself.



### RaniCover's properties



RaniCover is a coextruded 40 µm thick underlay film designed to improve feed. The separate film clings to the silage, quickly and optimally, eliminating air pockets through its vacuum effect. The quality of the underlay film is important as it gives you extra assurance if the silage sheet would be damaged

- Available in widths up to 22 m.
- Adapts smoothly to the top surface of the silage.
- Minimises risks at low cost.
- Greatly improves silage quality.
- Prevents losses at the top surface and along the edges.



### Technical specification

**Material:** LDPE with 7-layer technology  
**Colour:** Transparent





# Rani BEL

## High performance with thinner film

RaniBel is a silage sheet that combines cost effectiveness with optimal performance.



### RaniBel's properties



Ranibel is manufactured from high- quality raw materials resulting in a thinner film with excellent mechanical properties.

- Available in widths up to 22 m.
- Cost-effective m<sup>2</sup> price.
- Excellent mechanical properties.
- High-end raw materials.
- High puncture resistance.
- Thinner, lightweight, and easy to handle.
- Also suitable for biogas production units.
- Thinner film saves resources and is better for the environment.



### Technical specification

**Material:** LDPE with UV stabiliser  
**Colour:** Green/white



# Rani SILO

## Optimal forage preservation

RaniSilo silage sheets have excellent mechanical properties, are convenient, easy-to-use, and offer optimal forage preservation.



### RaniSilo's properties



RaniSilo products are UV stabilised and maintain their properties throughout the season.

- Available in widths up to 22 m.
- Economical.
- Consistent high quality.
- Tailor-made to meet the most demanding needs.



### Technical specification

**Material:** LDPE with UV stabiliser  
**Colour:** Black/white, black/green, black



# Rani SILO<sub>2</sub>

## Single sheet solution

Thanks to the advanced protective features of RaniSILO<sub>2</sub> only a single sheet is needed to cover the silage. Created with the future in mind, RaniSILO<sub>2</sub> saves the farmers time and money. In fact, the films EVOH- barrier blocks oxygen up to 100 times more efficient when compared to conventional silage sheets.



### RaniSILO<sub>2</sub>'s properties



- Available in widths of 10-20 m.
- Speeds up fermentation.
- Savings through improved feed quality and animal health.
- UV-stabilised.
- Prevents the silage from heating up.
- Less spoilage on the surface.
- Recyclable as LDPE.



### Technical specification

**Material:** PE / EVOH / PE with UV stabiliser  
**Colour:** Green / Grey





RaniSILO

Width (m)	Length (m)	Thickness µm	Color
6 - 22	50, 300, 400 and 500	100 - 150	Black, black/white black/green
6 - 20	50, 300 and 400	200	Black, black/white black/green

RaniCOVER

Width (m)	Length (m)	Thickness µm	Color
6 - 22	50, 100, 200 and 600	40	Transparent

RaniBEL

Width (m)	Length (m)	Thickness µm	Color
6 - 22	50, 300, 400 and 500	120	Green/white

RaniSILO<sub>2</sub>

Width (m)	Length (m)	Thickness µm	Color
10 - 20	50, 300 and 400	120	Green/grey

RaniSIDE

Width (m)	Length (m)	Thickness µm	Color
2, 3, 4, 6 and 8	50 and 100	120	Black



TIPS FOR MAKING SILAGE IN CLAMPS

1. Store the roll in a horizontal position on an even surface. Do not remove the protective film before using the silage sheet. If you do not use a whole roll at once, store the part-used roll in a dark place or re-wrap it into the protective film. Handle the roll with care during storage and transportation. The information label will help you to resolve any problems you may have with the film.
2. Use suitable equipment when unwinding a roll. Keep the silage sheet off the ground and away from any sharp objects. Unwind and unfold the silage sheet carefully.
3. Ensure the surface is clean before filling the clamp. Dirt will harm the quality of the silage. It is advisable to use RaniSidewall film after cleaning the surface. This film protects your concrete walls against acids, and protects the crop from oxygen penetrating the concrete wall.
4. Fill the clamp with thin layers of silage in silos with concrete walls. For the best compression, fill the silo higher at the sides than in the middle.
5. Once the silage stands higher than the walls, form a gentle rise in the centre so that water can drain away.
6. We strongly recommend using our RaniCover underlay film. Used correctly, it will improve feed quality and will provide the silage with extra protection.
7. Fold the RaniSidewall film on top of the RaniCover for extra protection in the most sensitive areas of the clamp. The correct width of RaniSidewall is twice the wall height.
8. Cover the clamp with an appropriate silage film. To find a suitable product, take a look at our range of silage films.
9. To protect the silage sheet against animals making small holes, we recommend the use of a protective net. After covering the clamp, we strongly recommend checking the film for possible damage.
10. For optimal preservation, use our barrier film, RaniSiLO<sub>2</sub>.
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*Leading producer of **agricultural films***

## **RANI PLAST**

### **Responsibility achieved by joint action**

For us at Rani, responsible business means using resources in the most efficient way, in common with the practices of our customers and partners. By achieving more with less, we take the best possible approach to sustainable development. Rani Plast was founded on this principle almost seven decades ago and will continue to be developed along the same lines in the future.





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