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**High quality aspects for silage
films and round bale netting in
modern fodder conservation**

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High quality aspects for silage films and round bale netting in modern fodder conservation

**Clemens Becker,
Sales Manager RKW SE**

RKW ProAgri is one of 5 Global Business Area's of the RKW-Group and producing Agricultural films and nets products (AFN). In Europe we are market leader for films of Polyethylen (PE). This enables us to provide a huge range of modern products and reducing time to market.

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- DLG approved silage films
 - CoEx-3 silage films
 - Vacuum films
 - **PE/PA Silage film combination**
 - Multi silage films
 - Side wall films
 - Silage film repair tapes
 - Silage cover nets
 - Silage sand bags
-
- Polydress® FarmTube



Only

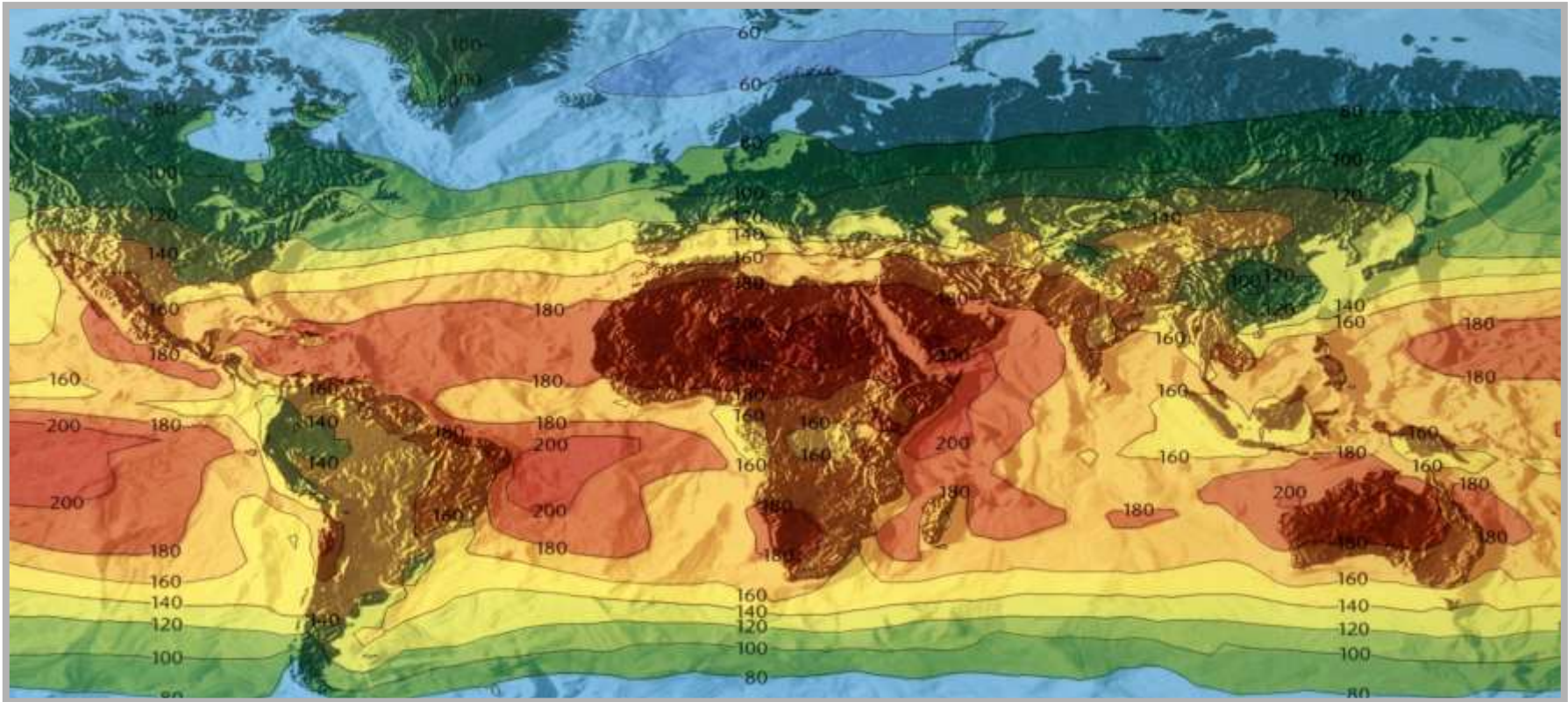
- high quality granulates and
- a constant, accurate dosing of the additives



can guarantee a high extrusion quality of silage films
- that makes the difference on RKW products.

Sales features of silage film

- Guaranteed UV-stability for one year in SA
- The UV-stabilisation will be aligned permanently to the changing UV-irradiation





- **DLG** is the **D**eutsche **L**andwirtschafts**G**esellschaft (= German Farming association),
- All products, which are signed out with the DLG label, are premium products, **the champions league** among the silage films,
- **RKW was awarded 40 % of all DLG approved silage films**

Basic criteria of a high quality silage film (DLG-test)

UV-Stability

1 Year Middle Europe



© DLG

From 23 silage films tested
RKW awarded 9 of them:

Gas permeability

max. 250 cm³/ m² *24h O₂

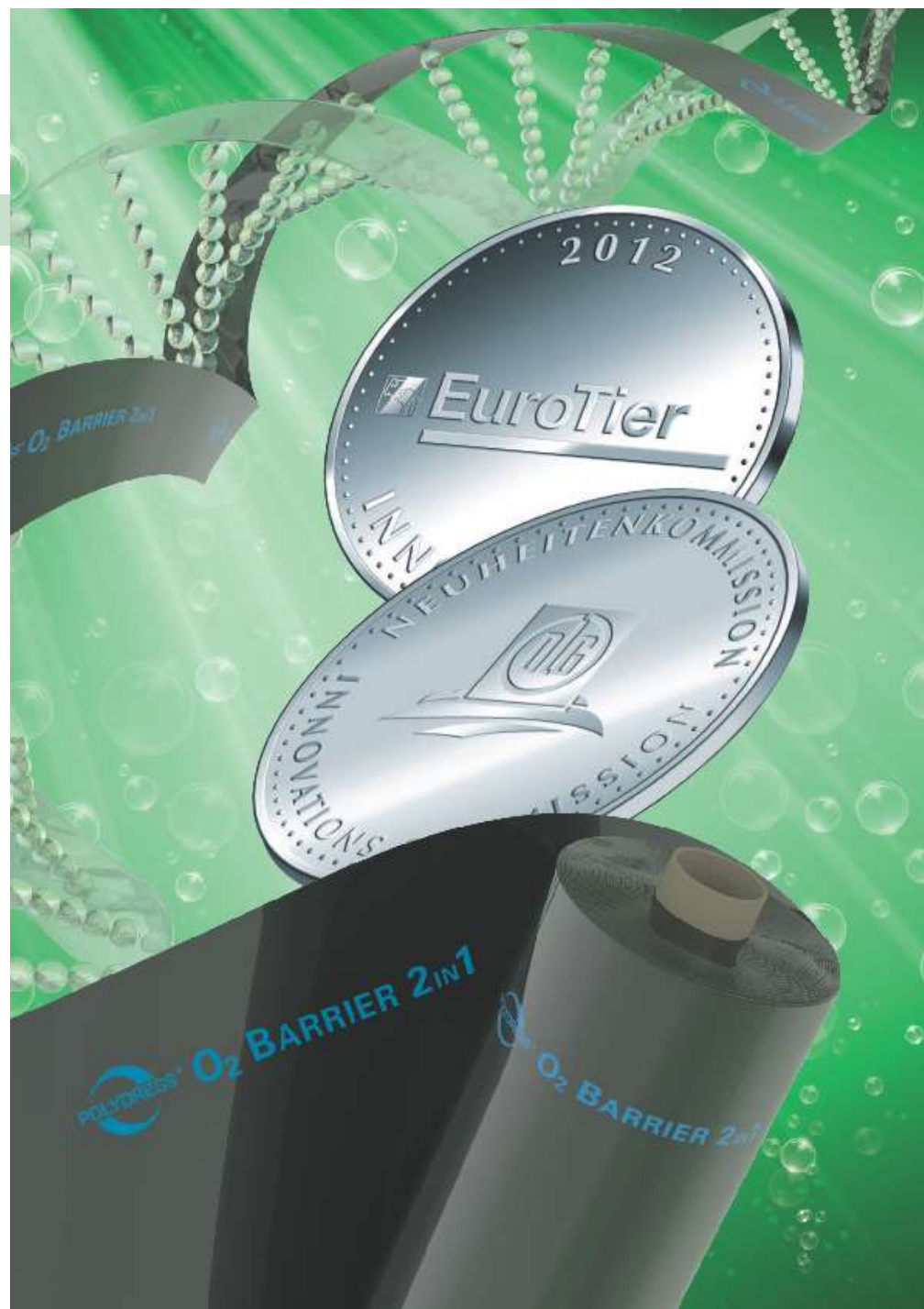
Thickness

+/- 5% of nominal thickness

Mechanic

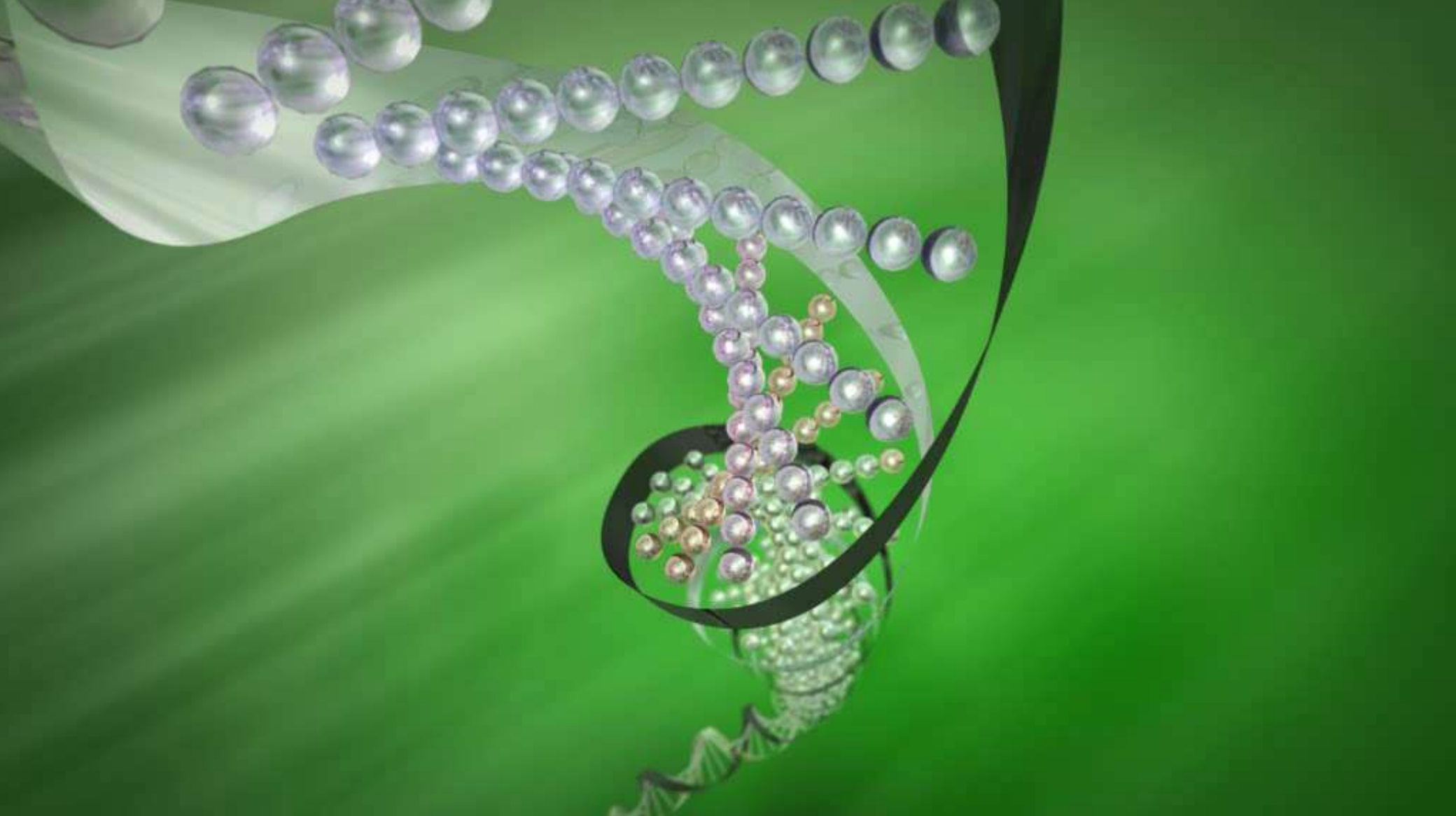
Breaking load ≥ 25 N
Elongation of break ≥ 400 %

To receive the Signum-Label, it's obligated to repeat the test annually



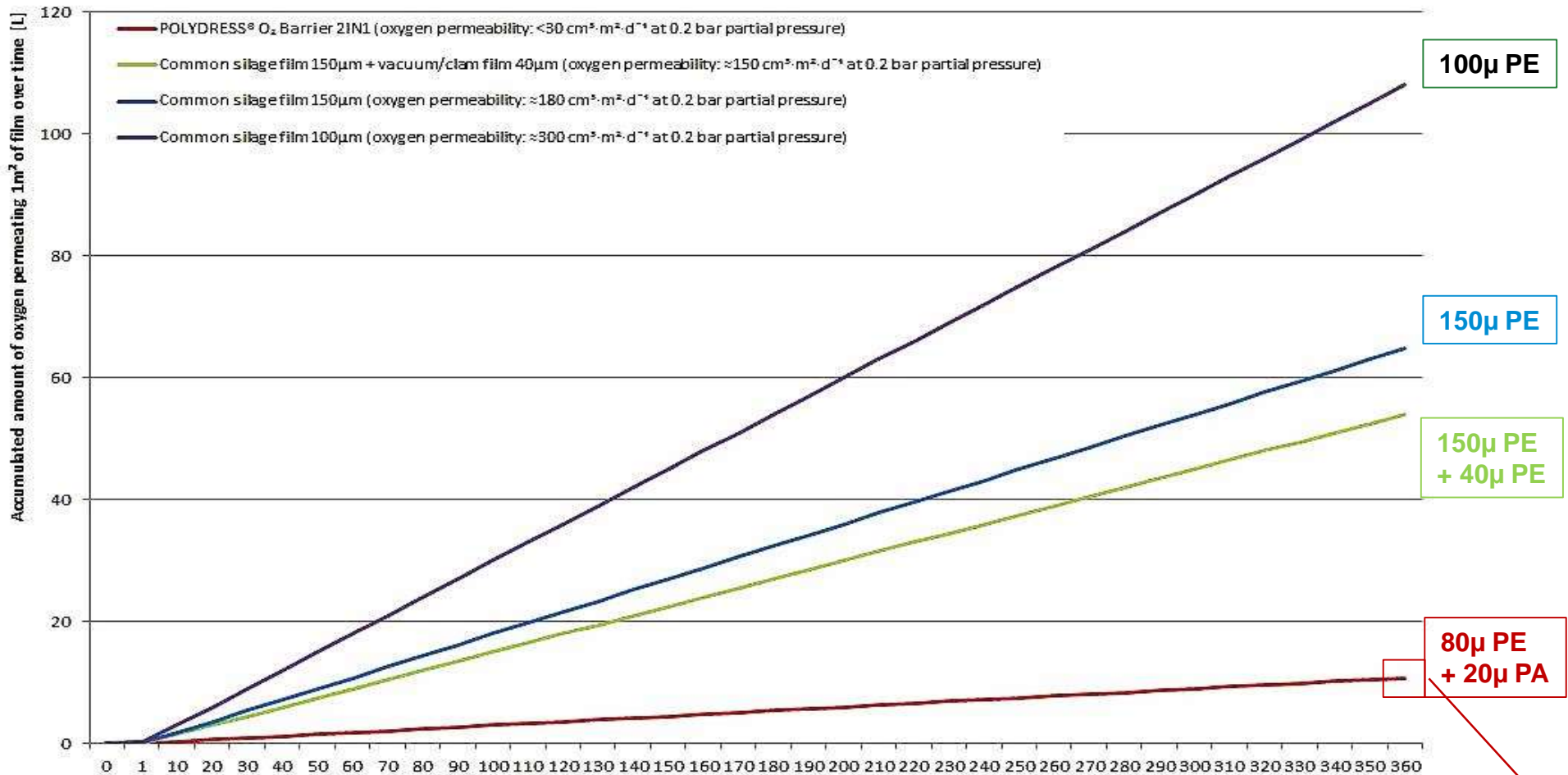
Deciphered!

The secret of a revolutionary silage film resulted in the Silver Medal Award at EuroTier in Hannover 2012.



Video in ppt file

Oxygen permeability // m² in days acc.



100µ PE

150µ PE

150µ PE + 40µ PE

80µ PE + 20µ PA



The **advantages** of POLYDRESS® O₂ BARRIER 2IN1 silage and vacuum film combination at a glance

- **Time savings** due to covering silo in one step
- 6 to 10 fold increased **oxygen barrier**
- **High** silage quality
- **Reduction** of **losses** due to aerobic fermentation
- **Easy handling** because of reduced system weight
- Sustainable **product design** using new materials

- Improving the silage quality can **increase yields** (milk yields) and reduce the causes of disease
- Improved **CO₂ balance** (carbon footprint) compared to conventional silage covers
- With a comparable oxygen barrier, the theoretical **CO₂ balance** of a PE film would be 7 times higher
- Material **recycling** is possible according to different concepts (PE can currently be recycled materially/physically, and PA thermally/energetically; advantage: separation of materials)

- **Sizes:**
 - # 8-18 m widths
 - # 50// 400 m length
- **Colors:**
 - # **Black/Black/Transparent**
 - # **White/Black/Transparent**
 - # **Green/Black/Transparent**



Quality silage is no coincidence

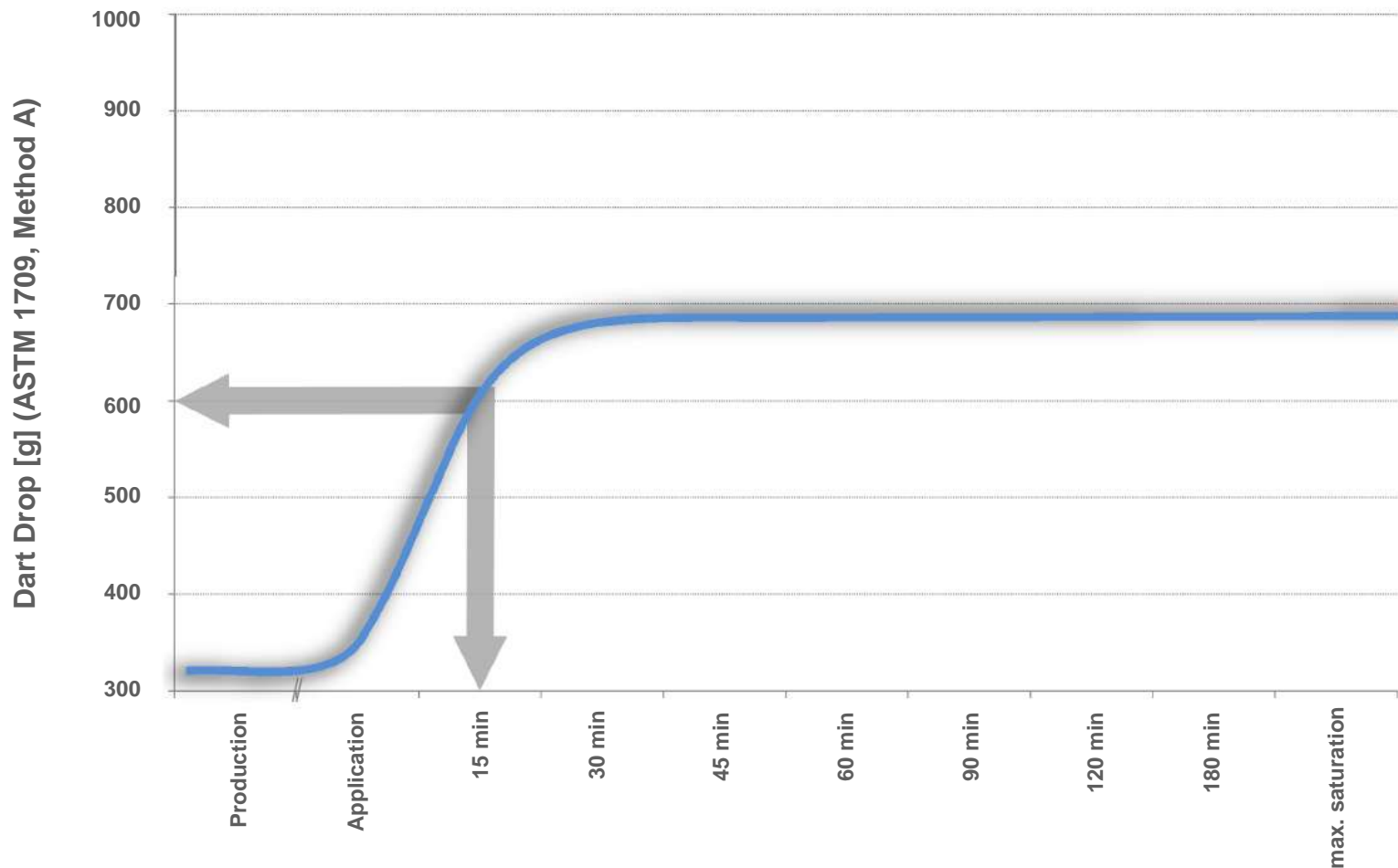


Good practices: first tests from 2011



Puncture resistance vs. moisture absorption

After production, film stored uncovered at room temperature and constant atmospheric humidity (approx. 40-50%)



Conventional cover vs. 2IN1 film combination

	Conventional cover	POLYDRESS® O ₂ BARRIER 2IN1	Advantage of POLYDRESS® O ₂ BARRIER 2IN1
Film thickness [µm]	190 (40 + 150)	100 (20 + 80)	<ul style="list-style-type: none"> ⬇ 40% savings of raw materials (resources) ⬇ 40% weight savings
Transport, logistics, and storage	2 units	1 unit	⬇ 40% savings over the entire chain
Packaging material	2 units	1 unit	⬇ 50% less packaging wastes
Workload for covering the silage	Two work steps are required (vacuum and silage film)	Covering in one work step	<ul style="list-style-type: none"> ⬇ Easier handling (-40% roll weight) ⬇ Reduced time required → cost savings
Improved silage quality	Oxygen permeability ~ 180 cm ³ /m ² · day · 0.2 bar	Oxygen permeability ~ 30 cm ³ /m ² · day · 0.2 bar	<ul style="list-style-type: none"> ⬆ Greater oxygen barrier, better silage quality ⬇ —less losses through aerobic metabolism
Disposal and recycling	Complete material recycling is possible	Complete material recycling is possible	<ul style="list-style-type: none"> ⬇ 40% material savings ⬇ disposal costs

RKW Brands round bale nets in SA:

RONDOTEX® EVOLUTION



RONDOSIL®

Production of round bale nets starts up with a high quality granulate and a homogen mix for the extrusion of primary films. This enables a

- high performing netting design with
- low weight,
- high strength (2400 N),
- reliable wrapping cycle in round baler,
- high density bales,
- time and
- cost saving // more bales/hour!



Product Portfolio Round bale nets

- Rondotex® Evolution
- Rondotex® CE
- Rondosil®





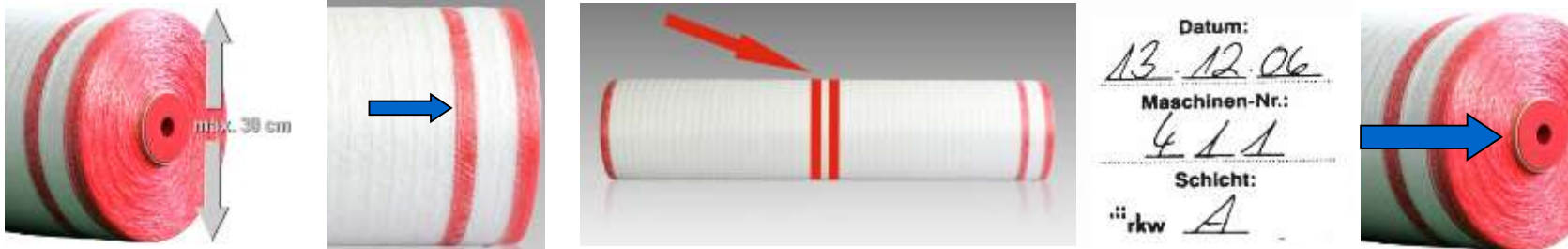
- **NEW:** environmental friendly tube-wise
- packaging with integrated carry handles

1,23 x 3.600 m edge-to-edge, UV SA

1,30 x 3.000 m edge-to-edge, UV SA

1,70 x 2.380 m over-the-edge (CE), UV SA

- Palletized with spacers
- Stretch hood packaging for safer transports

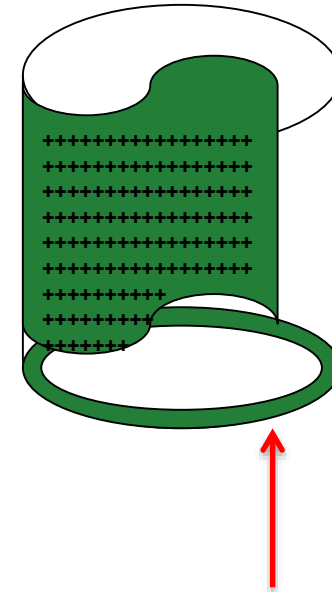


- Maximum outer diameter of 30 cm (+/- 1cm)
- Roll side marking (asymmetric)
- Roll end warning (last 30 meters)
- Guaranteed length of the rolls
- Manufacturing traceability
- Uniform core winding



- **Over the edge** performance
- Reduced air inside the silage bales
- Reduced moisture permeability
- Improved storage conditions
- Edge coverage up to max. 5cm
- Net is easy to remove
- Tensile strength of 2,500 N (57 chains)
- Suitable on special round balers like JD, Welger, & New Holland, Kuhn DF...

How much over the edge?



Others:

nearly 10 cm over edge!

→ nets breaks apart while taking off, rests of nets staying on the bale, foddered to the cows? ☹

Round bale nets from RKW

...suitable for..

Silage



Hay



and Straw



Why to buy nets from RKW?

- Light weight and reliable round bale nets,
- With the red thread on the edges,
- Edge-to-edge performance, (or O-T-E)
- High UV protected for SA,
- For tight and safe storable bales,
- Suitable for all baling products,
- Leading supplier with longterm experience in design and application,
- State-of-the-art production & packaging
- Equal price/performance ratio.



You will find us at



here at



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