



**KRONE**  
THE POWER OF GREEN



**excellent**  
Net wrap



# Net wrap

Product information

*Recommended for  
KRONE round balers*



## The *high-end* net wrap program from KRONE

Our excellent Edge, RoundEdge and StrongEdge high-end net wrap program products are characterized by their superior quality and ability to adapt perfectly to current crop conditions at any time. Although developed for KRONE RoundBalers, these net wraps deliver best results in balers of other manufacturers at any time.



Due to the waterproof packaging, the net is completely protected against moisture and possible impurities.

The both integrated handles enable an easy handling of the individual net wrap rolls.



# KRONE excellent net wraps


## The perfect net wraps for round balers



### excellent Edge

This is KRONE's universal net wrap product. This net spreads exactly from edge to edge and is the best option for any type of crop and every round baler.




Order no.	Length (m)	Width (mm)	Number of linear warp threads	Min. resistance to tearing in kg	
924 983 0	2,600	1,245	50	260	<input checked="" type="checkbox"/>
924 984 0	3,600	1,245	50	260	<input checked="" type="checkbox"/>



### excellent RoundEdge

This net offers even better edge to edge spreading, protecting the well-shaped bales from moisture and loss due to fragmentation.




Order no.	Length (m)	Width (mm)	Number of linear warp threads	Min. resistance to tearing in kg	
928 930 0	2,600	1,245	50	260	<input checked="" type="checkbox"/>
928 931 0	3,600	1,245	50	260	<input checked="" type="checkbox"/>



### excellent StrongEdge

This is the super strong net among the KRONE net wrap products. With two warp threads combined into one thread, this net offers an enormous resistance to tearing, larger meshing and excellent UV stability – properties that make it particularly suitable for use in hot and sunny regions and in coarse material.



Order no.	Length (m)	Width (mm)	Number of linear warp threads	Min. resistance to tearing in kg	
927 922 0	2,600	1,245	50*	320	<input checked="" type="checkbox"/>
927 924 0	3,600	1,245	50*	320	<input checked="" type="checkbox"/>

\* combined into 25 warp threads



# The quality of net wrap

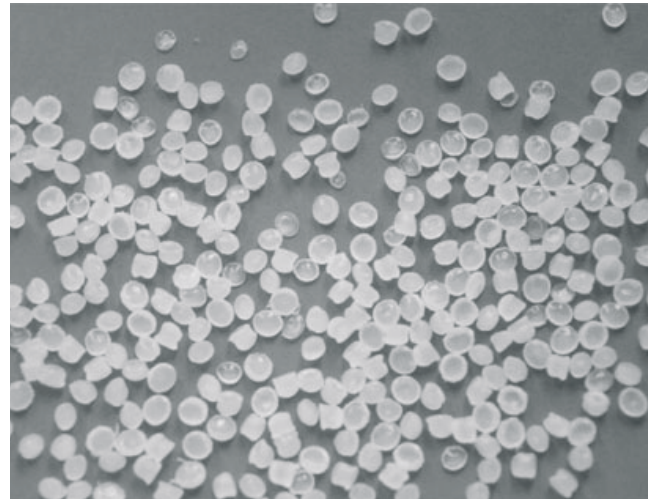
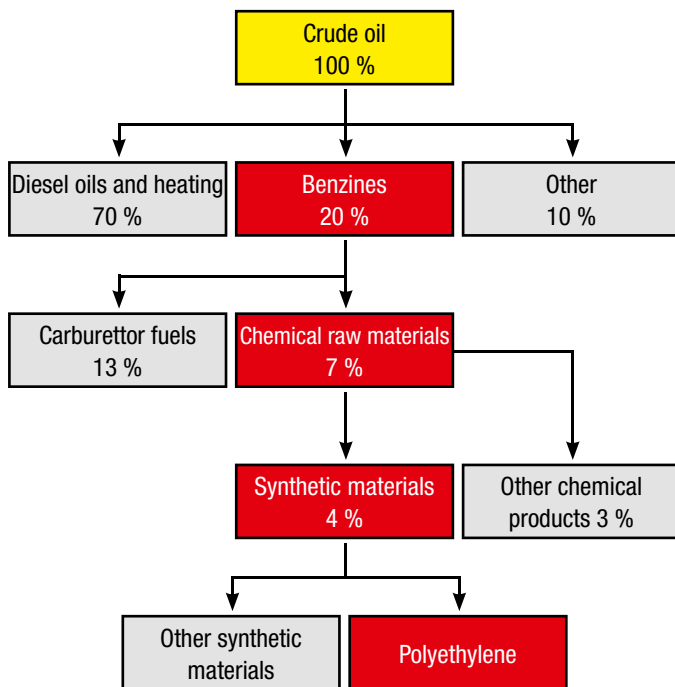
Which net wraps in the market are indeed high-quality? Which price is really justified?

To find out, it is helpful to look at the manufacturing process.

## The manufacture of KRONE excellent net wraps

All KRONE excellent net wraps are woven into a patented pattern and are made from highly tear-resistant warp threads, which run lengthwise inside the net.

So-called weft threads are woven between these warp threads, which is a complex process. These threads, too, are high tensile and offer a generous reserve length. It is this reserve length that many ordinary net wraps lack and hence it marks a clear selling point.



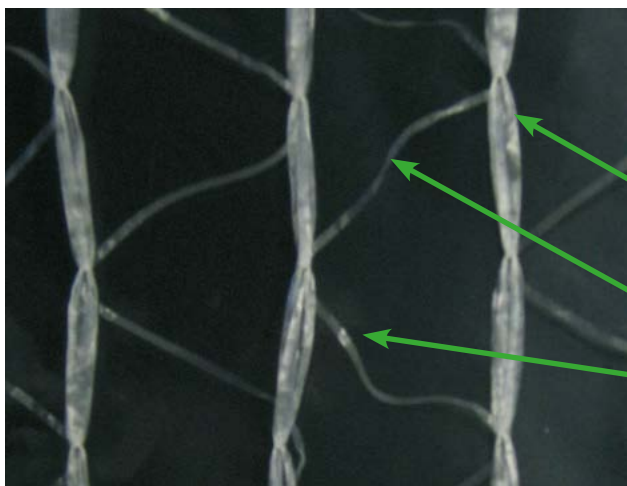
Polyethylen-Granulat

## Manufacturing and pricing of net wraps

Net wrap is made of polyethylene, which is derived from crude oil.

Crude oil prices are very volatile and as such account for the price changes for net wrap more often than the price policy pursued by manufacturers and dealers. Their margins are actually quite small in a market where they compete with traders of unsophisticated and low-cost net wrap.

**When comparing prices, you should compare prices per bale rather than prices per roll.**

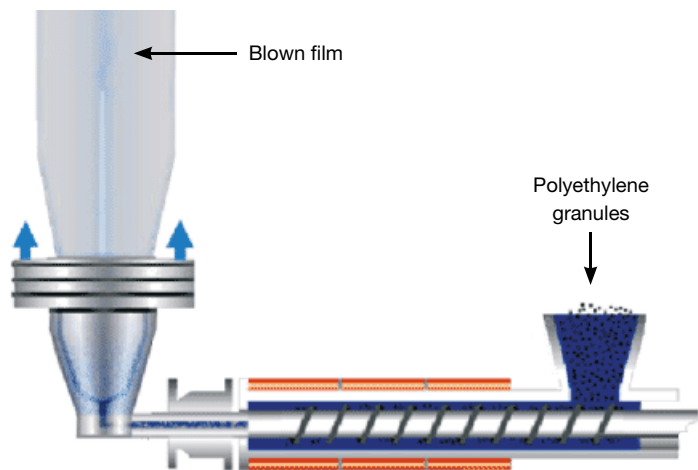


**Extra strong warp threads**

**Weft threads with reserve length**



# The manufacture of KRONE excellent *high-end* net wraps



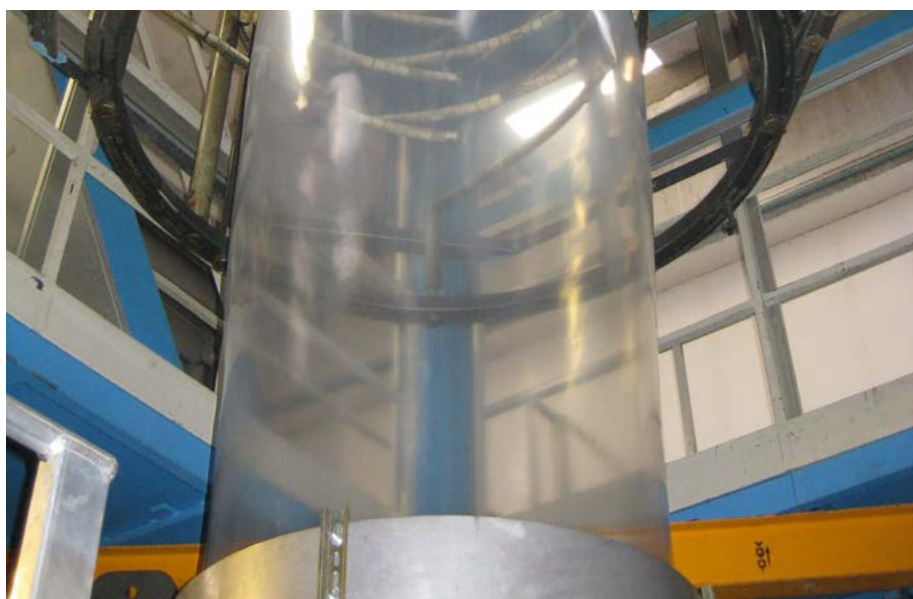
## Production:

The high-density polyethylene granules are heated in an extruder until molten. Then the material is blown through a jet and into a bubble shape.

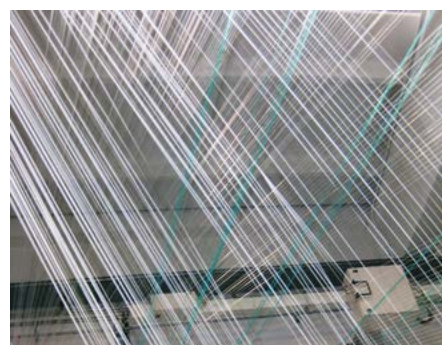
Once cooled, the film is wound onto rolls and then cut into thin tapes.

These tapes are stretched and fed to looms where they are manufactured into KRONE excellent net wrap, following a unique and patented process.

At the end of this step, the finished net is rolled to 2,600 m and 3,600 m rolls.



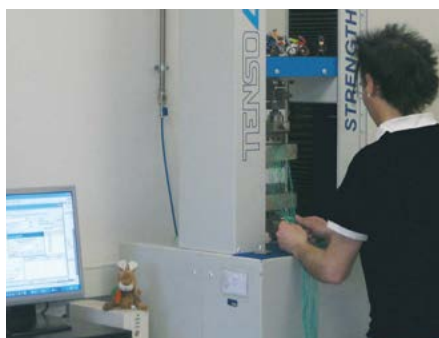
Blown polyethylene film



Polyethylene tapes ready for weaving



Net wrap ready for shipping



Quality control at the test lab

## Quality control:

Before the KRONE excellent net wrap is packed and shipped, it is lab tested for its technical qualities. These checks are carried out on a daily basis and include tests on tear resistance, stretch and UV stability.

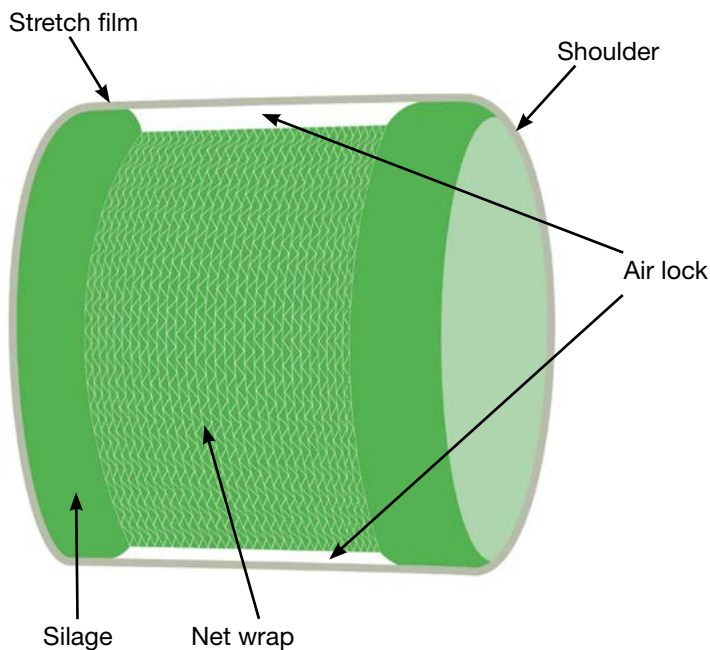
# Risk of shoulders from using ordinary nets

Poor edge-to-edge spreading leads to shoulders and crop spoilage



'Shoulders' on the bale's edges are a clear sign of a net wrap's poor edge to edge spreading ability. Shoulders are inevitable when using ordinary and cheap net wrap, even though the baler is set to optimum performance. At the heart of the problem are the weft threads inside the nets which often lack the required reserve length. Such net wrap may be cheaper as it requires a less sophisticated manufacturing process. Yet, experience shows that shoulders have a negative effect on the quality of the crop.

**Besides, contractors would not want to take chances by using ordinary net wrap as customers will hold them to account for poor quality bales!**



## Caution:

Shoulders are often a major cause for spoilage in silage bales. Given the uneven surface, the film cannot cling evenly to the bale, giving ample opportunity for air to be trapped between the bale and the film. Apart from that, the film is more prone to damage and puncture due to the shoulders.

### Shoulders may cause the following problems:



- The edges are exposed to weathering and moisture
- High losses in transit, for example, due to fragmentation
- The bale does not maintain its shape
- Round bales with pronounced shoulders will not stack up neatly
- When baling silage, air may be trapped under the film wrap, leading to spoilage
- Contractors may suffer loss of image as untidy bales draw negative comments

# KRONE Edge-to-Edge technology\*:

Optimum bale coverage edge to edge

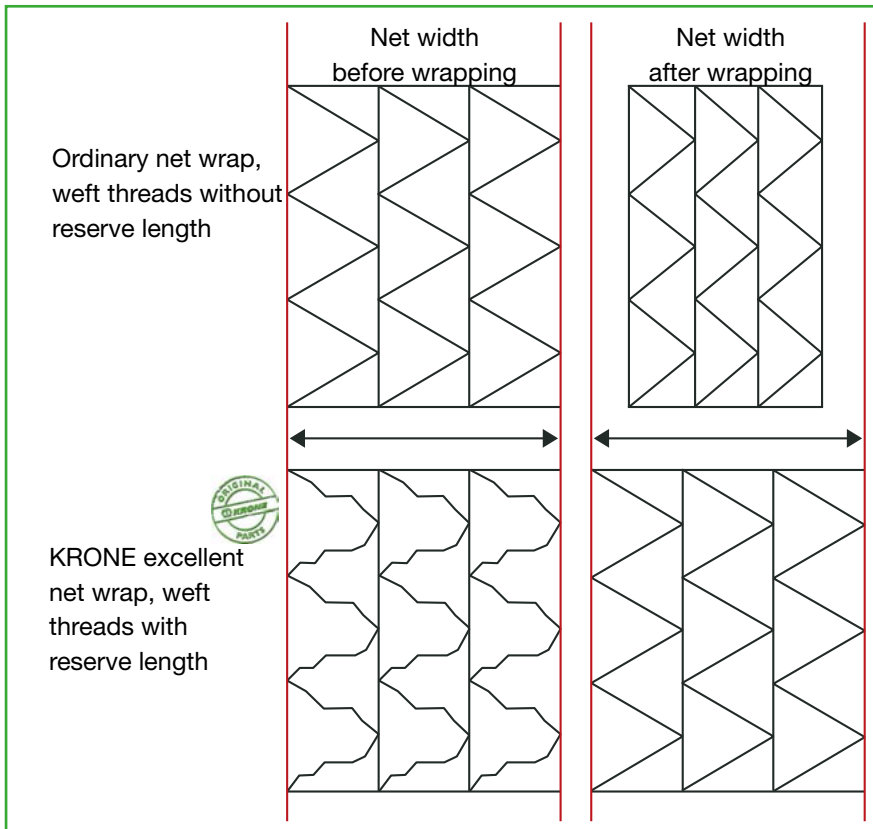


## Edge-to-Edge technology\*:

Without exception, all KRONE excellent net wraps use weft threads that benefit from plenty of reserve length. All excellent Edge and StrongEdge net wraps provide excellent spread from edge to edge.

The result is a perfectly shaped round bale.

\* European patent no. 0919655 - US patent no. 6521551



## Net width before and after wrapping:

### Ordinary net wrap:

As the net is exposed to vertical tension during baling, its weft threads without reserve length pull on the weft threads to the effect that the net shrinks, with the high pressure inside the bale pushing the crop out of the net.

### KRONE excellent net wrap:

The weft threads in the KRONE excellent net wraps have sufficient reserve length to maintain the full net width on the bale.



# Properties of an excellent net wrap

Good edge to edge spread is one parameter that defines the quality of a high-performance net wrap. Here are more:



*Smooth unrolling*

## **Smooth unrolling and guaranteed length:**

Rolled uniformly and evenly on a cardboard core, KRONE excellent nets unroll trouble-free and smoothly to deliver the guaranteed number of metres on the roll. You can easily verify the actual metres on the roll.

To do that, figure out how many bales a roll will yield theoretically and then compare this result with the number of bales you actually wrapped in the field.



*End marking over the last 70 metres*

## **End marking:**

All excellent net wrap features a green end marking that visibly indicates to the operator on the last 70 metres that the end of the roll is approaching.

## **UV stability:**

UV stability is important when storing bales outside. KRONE excellent net wrap benefits from a special coating that offers UV-protection for up to one year.



*Easy handling thanks to left / right marking*

## **Left / right marking:**

Clear marking identifies the left and right side of the net roll, allowing easier and safer loading. It identifies which way the net will unroll, so the roll is loaded correctly every time.

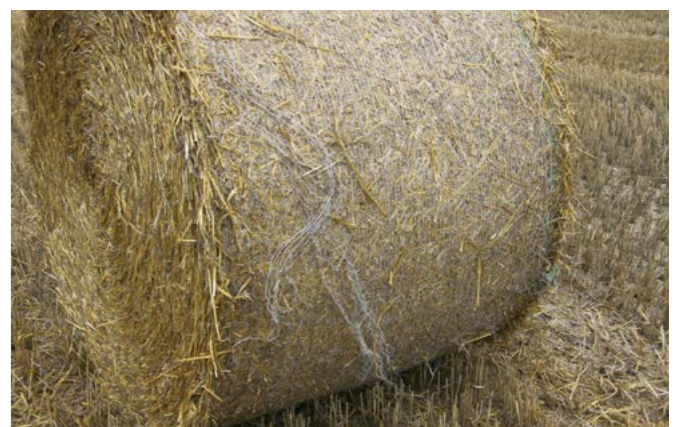
## **Interlacing net ends:**

The ends of a net should interlace properly rather than hanging loose.

If ends interlace well, interlacing of the individual layers will be better, too. This way, you save on wraps and get more bales from one roll of net wrap.



*KRONE excellent Edge net ends interlace perfectly*



*This is an ordinary net with poor interlacing*



# Resistance to tearing:

The bales pictured here were dropped from a front-end loader that was raised to an approximate height of 2.50 m. The purpose was to test the tear resistance of KRONE excellent Edge in comparison of an ordinary net wrap product. The result is clear.



**Its high resistance to tearing makes a high-quality net an economical option, saving wraps and costs per bale.**

Also, the bales maintain their shape much better. Buyers should look for minimum tear resistance data and not for average tear resistance on the package. The minimum tear resistance defines the net's guaranteed resistance properties although the actual resistance is usually higher. Average figures, by comparison, include poorer measurements as well. The minimum tear resistance of KRONE excellent StrongEdge is approx. 320 kg.



*KRONE excellent Edge*



*A cheap net wrap*

# KRONE excellent *Smart* net wrap program



To be able to offer customers which have simple product requirements a good alternative, a “smart” version of our proven high-end net wraps excellent Edge has been developed – KRONE excellent *Smart-Edge*. This is a net wrap with high cost-benefit ratio as it exceeds – based on a good price – the fundamental quality requirements. It achieves the best harvest results at any time.

KRONE excellent *SmartEdge* is available with a running length of 3,000 metres.



### excellent *SmartEdge*

KRONE excellent *SmartEdge* reaches from one edge to another of the bale to prevent shoulders.

Order no.	Length (m)	Width (mm)	Number of linear warp threads	Min. resistance to tearing in kg	
924 988 0	3,000	1,245	50	260	





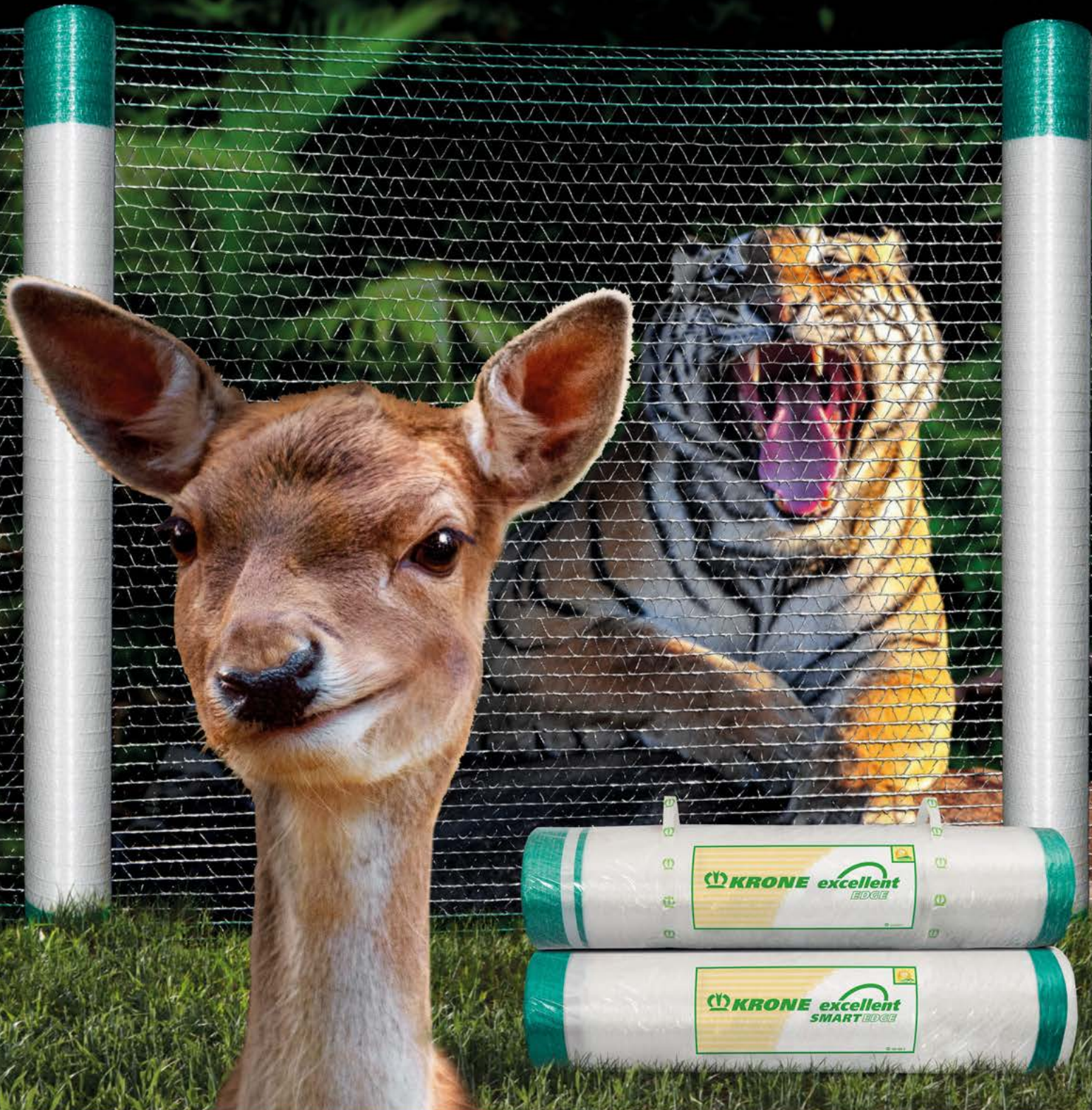
 **KRONE** *excellent*

Net wraps

...that hold!

...excellent net wraps live up to their promise.

Offering an enormous tear resistance and unique edge-to-edge spreading technology, these nets give the most effective protection from the vagaries of weather – from edge to edge.





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## Events

Are you in for a KRONE live experience? Check out for KRONE events and look at a machine on show or watch it during a demonstration. After all, there is little that is more effective than a hands-on experience.

Your KRONE dealer

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