

ZeusePICROP

Agricultural Packaging



Experts in
our field.



We Make. We Supply. We Deliver.

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Manufacturing

Bale Wrap

- Blown extrusion.
- Reference standard NP EN ISO. 9001:2008. Flexible low density polyethylene.
- Windmüller (7 layers).
- Reiffenhauser (5 layers) x 2 lines.
- 12,000 tonnes annually.

- 36,000 tonnes annually.
- All types of twine produced: Big bale, medium, hay & fine.
- ISO 9001:2008 - quality certs.

Silage Sheets

- Specification labeled on each sheet.
- Virgin polymers.
- O2 impermeability 24 hours.
- Flexibility to adhere to silage.
- High puncture /tear resistance.

Bale Netting

- The largest producer of net products in the world.
- 1 million rolls of bale net annually.
- KARL MAYER machines.

Silage Tape

- Epicrop Silage Tape is high strength, strong adhesive PVC tape.

Baling Twine

- 20 machines.
- Italian made Sima machines.
- German made Barmag machines.

We provide premium packaging solutions to the agricultural world.



Operations in:

Dublin | Cork | Belfast | UK | Spain | Poland | Germany
Portugal | Greece | China | Australia | New Zealand | Canada

Bale Wrap

Plastics Extrusion

Plastics extrusion is a high volume manufacturing process in which raw plastic material is melted and formed into a continuous profile. One of the most common methods of film manufacture is Blown Film Extrusion. The process involves extrusion of a plastic through a circular die, followed by 'bubble-like' expansion. The principal advantage of manufacturing film by this process is stronger puncture resistance.

Multi-layering

Our agri film is manufactured by five and seven multi-layer co-extrusion lines while single-layer and three-layer film production is increasingly intended for a limited and low target market.



Blown-Film Extrusion

1. The volume and pressure of air "blown" into the tube causes the material to stretch, thereby determining the overall size of the bubble and the width of the finished sheet.
2. This same action, in conjunction with the rate at which the bubble is being pulled upward away from the die, determines the thickness of the finished film.
3. The bubble begins the air-cooling process while traveling up to the nip rollers.

The multi-layer film ensures an enhanced management of raw process materials and optimised additive distribution in every layer, thus increasing film physical and mechanical properties.

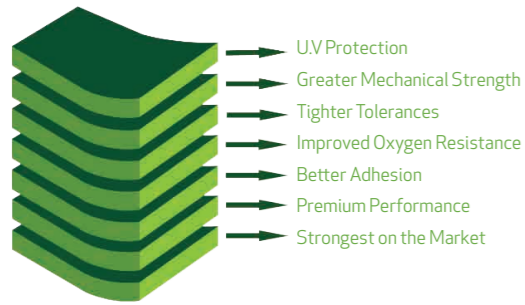




EPIC 7

The **Strongest** and most technically advanced wrap on the market.

EPIC 7 is a **7 layer co-extruded blown** stretch film developed with high performance advanced polymers, manufactured using the very latest state of the art 7 layer extrusion production systems.



EPIC 7 Specification	
Brand name	EPIC 7
Colour	Hunter Green
Roll length	1500m
Width	500/750mm
Micron	25mu
Layers	7



EPIC 5

With a **5 layer technology**, all the mechanical aspects of a bale wrap are maximised resulting in a consistently reliable, high quality, high performing film.

In order to provide the ideal ensiling environment balewrap needs to offer a number of important elements such as strength, puncture and tear resistance, elasticity, UV stability and the ability to cling in all circumstances.



EPIC 5 Specification	
Brand name	EPIC 5
Colour	Black/Green/White
Roll length	1500m
Width	500/750mm
Micron	25mu
Layers	5



ENVIRO PLUS 1650

ENVIRO PLUS 1650 Specification	
Brand name	ENVIRO PLUS
Colour	Black/Green/White
Roll length	1650m
Width	500/750mm
Micron	22mu
Layers	5

- ✓ Up to 3 extra bales per roll.
- ✓ Less downtime (fewer roll changes).
- ✓ Less waste in roll cores and roll packaging.
- ✓ Less roll handling.
- ✓ Economical - saving money.



ENVIRO PLUS 1900

ENVIRO PLUS 1900 Specification	
Brand name	ENVIRO PLUS
Colour	Black/Green/White
Roll length	1900m
Width	500/750mm
Micron	21mu
Layers	7

- ✓ Up to 6 extra bales per roll.
- ✓ Wrap with 6 Layers with no extra cost.
- ✓ 7 Layer gives super strength and excellent O2 barrier properties.
- ✓ Unbeatable price per bale.



EPIC 5 - PURPLE

EPIC 5 PURPLE Specification	
Brand name	EPIC 5
Colour	PURPLE
Roll length	1500m
Width	500/750mm
Micron	25mu
Layers	5

- ✓ Greater strength and cling.
- ✓ UV stabilisation protection.
- ✓ Greater resistance to oxygen ingress.
- ✓ Consistent trouble-free wrapping.
- ✓ Great value for money, elasticity, UV stability and the ability to cling in all circumstances.



Bale Net

Epicrop Bale Net has proven to **consistently deliver** all of the performance criteria demanded by contractors for all baling conditions.

Epicrop Bale Net not only delivers you guaranteed length and full bale coverage, but also competitive prices which ensure customer satisfaction.

Using Epicrop Bale Net:

- Full Bale coverage performance.
- High strength to cope with the heaviest of bales.
- End warning system that alerts operator when there is 50m left.
- Guaranteed minimum length ensures value for money.
- Consistent and trouble-free baling.
- UV stabilised.

Using Cheap Bale Net:

- Leaves shoulders which lead to trapped air leaving mould on the silage.
- Cheap netwrap will only work on some baler types.
- Tearing on hay and straw.
- Less bales per roll as more bale net is required to keep bale together.
- Means customers holding you accountable for poor quality bales!

GOLD Bale Net

Gold Double Chain is developed using the latest developments in net technology. It uses an innovative, state of the art technology to increase strength by using Double Chain instead of traditional single chain.



This enhancement offers the user a full range of features and benefits which leads to fewer rolls and less baling time. Gold Bale Net provides users with the highest quality, highest resistance and maximum strength bale net on the market today. It gives 310kg breaking strain which is the strongest on the market. **More on page 13.**



GOLD BALE NET Specification	
Brand name	GOLD DOUBLE CHAIN
Colour	Gold
Roll length	3600m / 4500m
Width	1.23m / 1.30m
Breaking Strength	310kg
Rolls/pallet	28

RED Bale Net

Red Bale Net is characterised by the superior quality and ability to adapt perfectly to crop conditions at any time.

The raw materials and production methods used provide users with a greater net strength. It gives max breaking strain of 250kg and improved protection from the elements.

RED BALE NET Specification	
Brand name	EPICROP RED
Colour	Red
Roll length	3000/3600/4000m
Width	1230mm
Breaking Strength	250kg
Rolls/pallet	28



Stack Netting

Suitable for protecting silage clamps and big bales.

EPICROP STACK NETTING Specification	
Brand name	EPICROP STACK NETTING
Roll length	25m
Width	8000mm



Double Thread

x2

Stronger than any other bale net on the market, **Double Chain** ensures maximum resistance to tearing and product loss.

Double Security



The **Double Chain** bale net uses an innovative, state of the art technology which increases tensile strength by using double wrap instead of the traditional single wrap.

Extra Protection



The unique structure of the **Double Chain** bale net gives extra mass to provide maximum protection from rain and snow spoilage and all other weather conditions.

Superior Coverage



The **Double Chain** bale net gives a better coverage to all types of crops regardless of weight or size due to its innovative reinforced chain. The result is consistent and uniform coverage producing bales which are completely wrapped and protected throughout.

Reinforced Cross Mesh



The innovative design of the **Double Chain** bale net uses a reinforced cross mesh thread providing a strong and reliable solution for all baling needs.

Reduced Time & Costs

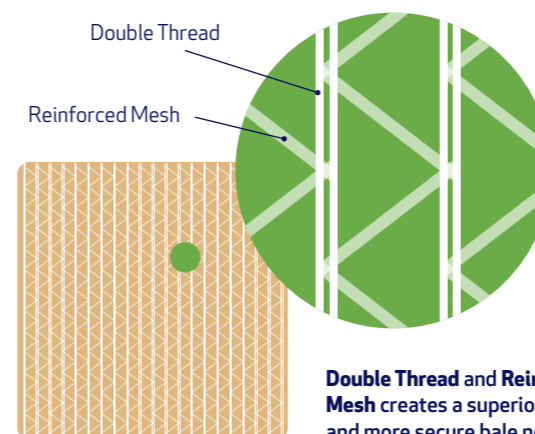


Due to its lightweight construction **Double Chain** is available in up to 66% longer length than the market standard, securing even less rolls to wrap the same annual bale count with less plastic to recycle.

Carry Handles



Every roll of **Double Chain** is fitted with purpose carrying handles, to assist the operator in handling and carrying the roll.

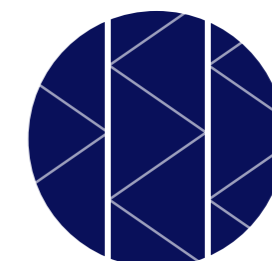


Double Thread and Reinforced Mesh creates a superior, stronger and more secure bale net.

Standard Net Wrap



Double Chain Net Wrap





Silage Sheets

A poor quality sheet may cause up to 10% loss of quality on average silo which can lead to significant loss of money. A good silage sheet is recognised by the quality of its high resistance, UV protection, oxygen permeability, food contact suitability and eco design.

The key to Quality Silage Fodder is the choice of Silage Sheet.

Success will be determined by the seal, resistance/strength and flexibility of the silage sheet you choose. In order to ensure quality silage, make sure your sheet is gauge guaranteed and is produced using virgin polymers.

Epicrop Silage Sheets guarantee:

- ✓ Specifications labeled on each sheet.
- ✓ Virgin polymers.
- ✓ 02 Impermeability 300m³/m²/24 hours.
- ✓ Flexibility to adhere to the silage.
- ✓ Food contact suitability.

EPICROP Silage Sheets are a super strong protective silage sheet.

They are developed in close co-operation with end users and leading raw material suppliers. Epicrop silage sheets are manufactured from the best materials by means of a high tech co-extrusion process that guarantees even and reliable quality.

Epicrop Silage Sheets are produced with the best virgin polymers and are gauge guaranteed, which gives superior mechanical properties and strong resistance to impact and tearing for the entire season.



Epicrop Silage Sheets are available in:

- ✓ black, black/white & black/green
- ✓ various different sizes
- ✓ various different thicknesses

EPICROP Black/Green

Epicrop Black/Green has the green layer which makes it one of the strongest silage sheets on the market. This environmentally friendly green layer prevents undesirable fermentations from occurring due to its capacity of reflecting the solar radiation from the sun, which decreases the temperature of the fodder, silage or grain stored beneath.



EPICROP Combi Film Silage Sheets

Our newly developed range of Combi Silage Sheets combine the underlay film with the black/white silage cover.

Both films are combined together during the manufacturing process. This product eliminates one complete labour intensive step during the silage pit covering process.



Why compromise your silage pit, worth substantial revenue, with poor quality, non-specified and non-guaranteed silage sheets?

Baling Twine

A comprehensive range of high quality twines are available and they are suitable for use on the most advanced baling machinery throughout the season.

In order to achieve such high quality, our twine is manufactured with an emphasis on the fibrillation which is crucial to achieve a high performing twine.

Fibrillation is achieved during the manufacturing process by passing the extruded tape through a fibrillation roller before being converted into a twisted twine. This process brings softness and flexibility to the twine that is essential to achieving the optimum performance and knot creation.

Manufacturers who only stripe the twine cannot reach the same level of softness or flexibility. Fibrillated twine can be recognised by the mesh like appearance that can be seen when the twine is stretched. All our twine is thoroughly tested.



EPICROP - Baling Twine

A comprehensive range of **high quality twines** are available and they are suitable for use on the most advanced baling machinery throughout the season.

EPICROP Baling Twine offers you:

- ✓ High quality twine.
- ✓ High strength and consistent length.
- ✓ Perfect spool shape with a unique ID.
- ✓ Improved knot performance.
- ✓ High bale density and UV stabilised.
- ✓ Guaranteeing the strongest knot and a high breaking strain.
- ✓ More operational efficiency and universal application.
- ✓ Smooth running - minimises wear and tear on the knotting system.



REFERENCE	EPICROP STANDARD	EPICROP 355	EPICROP 430
Application	Lower Density Balers	Hay Silage Straw on HD Baler	Straw & Hay for HHD Balers
Runnage (m/kg)	132	127	110
Knot Strength (kg)	181	220	280
Colour	Ferric Oxide	Ferric Oxide	Grey
Pack Weight (kg)	16.5	17	20
Pack Runnage (m)	2200	2150	2200
Packs per pallet	56	56	56
Pallets per 40' Container	20	20	20
Pallets per Truck	22	22	22

REFERENCE	SISAL 8000	HAY 488	MEDIUM 12000	FINE 22300
Application	High Density Balers Flax, Straw	Modern High Density Pick up Balers Ideal for Hay	For use on all Round Balers	For use on all Round Balers
Runnage (m/kg)	155	320	370	920
Knot Strength (kg)	72	85	60	n/a
Colour	Gold	Ferric Oxide	Ferric Oxide	Blue
Pack Weight (kg)	16.8	10	9.6	6.7
Pack Runnage (m)	2600	3100	3515	6799
Packs per pallet	60	80	80	150
Pallets per 40' Container	22	24	24	20
Pallets per Truck	22	24	28	22

EPICROP - Silage Tape

A **high strength**, strong adhesive PVC Tape which can be used throughout many different areas on the farm.

SILAGE TAPE Specification	
Brand name	SILAGE TAPE
Colour	Various
Roll length	18m
Width	75mm



Epicrop Silage Tape is available in a variety of colours:





POWERTITE

Powertite is a **net replacement film** that is made from a 7 layer technology.

As Powertite is made from the same material as Silage Wrap, no separation is required after use from your Silage Wrap. Both Silage Wrap and Powertite can be recycled together.



Powertite being used.

POWERTITE Specification	
Brand name	POWERTITE
Roll length	1650m / 2000m
Width	1380mm / 1400mm
Rolls/Pallet	20

Why Powertite?

- ✓ Better oxygen barrier.
- ✓ Less waste. 50% reduction on DM losses (on an actual farm trial).
- ✓ Easier film removal and recycling.
- ✓ 10% denser bales.
- ✓ 66% of the bale covered with 3 or 4 more layers of plastic.

Terms & Conditions

1. **General**
No variation, calculation, waiver of or addition to the contract constituted by our invoice and by conditions of sale shall be valid or approvable unless agreed in writing by Zeus Packaging Ltd.
2. Where an order has been taken by an employee or agent elsewhere than at our principal place of business we shall have the right for seven days afterwards to decline the order in whole or in part at our discretion and without being required to give any reason.
3. The company accepts to supply on basis of customers written order only, and all special customer specifications must be expressly stated on customers written order and acknowledged expressly on Zeus Packaging Limited invoice by specific cross reference.
4. **Delivery date and risk**
Any delivery date specified or otherwise given by us is approximate only and any claims arising as a result of our inability to meet any stated delivery date are excluded and there shall be no liability on the company whatsoever. Delivery hereunder shall be sufficient if we or our delivery agents obtain a delivery receipt signed by you or on your behalf. All risk in the goods shall pass to you on delivery as set out above.
5. **Claims**
 - (a) No claim by you for defective goods will be entertained unless notification of such claim is received in writing within 7 days of the receipt of the goods by you. Should such a claim be received by us, it will be considered in the light of all other conditions of this order and without prejudice to any rights we may have under those conditions.
 - (b) If, in respect of any one delivery of any goods, several items in excess of normal commercial tolerance are alleged by you to be defective or damaged you will inform us pursuant to the provisions of sub-paragraph (a) above and you shall before the expiration of 7 days of receipt of the goods by you return at your expense one- item of the defective or damaged goods for inspection to us. If, thereafter, the goods are accepted by us to be defective or damaged then you will return such defective or damaged items to us and we will either replace the same and credit you with the cost of freight and insurance in returning all defective or damaged items to us or we will credit you with the selling price to you (ex our warehouse) of the defective or damaged items and also the costs of freight and insurance in returning same to us.
 - (c) Defective or damaged goods must be dispatched to us within 7 days of our accepting that they are defective or damaged.
 - (d) Under no circumstances will we be liable to reimburse you in any way whatsoever for any loss of profits that you may suffer.
 - (e) No claim under these conditions in respect of any delivery or part delivery of an order for goods shall entitle you to cancel the remainder of order or contract.
 - (f) If a delivery note/proof of delivery is signed clear, unchecked or is unexamined and a subsequent problem with the delivery is discovered, a credit will not be issued. Credits will only be issued if shortages and returns have been noted on the delivery note/ proof of delivery.
6. **Title of Goods**
Any goods supplied in terms of our invoice remain our property until such time as the contract price together with any interest there on accruing have been paid in full. We retain the right of disposal accordingly and in pursuance thereof you hereby irrevocably grant to us and/or our authorised representative license to enter on any premises of yours on which such goods are kept for the purpose of taking possession of any such goods to which we are entitled hereunder in the event of the contract being canceled by any cause whatsoever. In the event that the goods supplied under this or any other invoices by us have been sold or damaged or otherwise disposed of and the payment date having passed we retain the right to enter any premises of yours and confiscate any similar goods at a unit price to be determined by ourselves.
7. **Delay or Cancellation**
If any delivery is delayed or canceled by us due to force-majeure, dislocation of manufacture, strikes and lock-up (whether inside or outside our works) or other circumstances reasonably beyond our control it is agreed that we are released from our obligations to supply the goods in terms of this order and that the present order may be delayed or suspended during the continuance of such circumstances or canceled by us at our option. We shall inform you of such circumstances without delay.
8. **Set-off**
Any monies due or to become due from you shall not be liable to become the subject of any deduction by you or any set-off or counter claims arising out of this or any other order which we may have with you.
9. **Withhold of Delivery**
If you have not paid us for goods delivered in accordance with these conditions then we shall have the right to hold delivery of any further goods to be supplied by us, whether under the terms of this order or any other order, until you have reduced that amount owing by you to us to such a reasonable level as may be acceptable to us. Any such withholding shall not entitle you to cancel any order or a part thereof.
10. **Your Default**
If you shall make any default or commit a breach of these conditions or if any distress or execution shall be levied upon your assets, or if you shall make any arrangements or composition with creditors, or commit any act of bankruptcy, or if any petition or receiving order in bankruptcy shall be made against you, or if you are a limited company and any resolution or petition to wind up such company's business (other than for the purpose of amalgamation or reconstruction) shall be passed or presented, or if a receiver of such company's undertaking or assets or any part thereof shall be appointed we shall have the right forthwith to determine any contract then subsisting between us and upon written notice of such determination being posted to you at your last known address any subsisting contracts between us shall be deemed to have been determined without prejudice to any claim or rights we may otherwise make or exercise. In the event of any breach of contract by you as a result of which we incur any legal fees, such proper and reasonable fees are to be borne by you.
11. **Availability of Materials**
Whilst we shall make every effort to supply in accordance with your order we reserve the right to supply substitute colour and materials of a similar quality and nature in the event of unavailability of material and/or inks.
12. **Consequential or Special Damage**
We shall not be liable for any consequential or special damage resulting from the supply, delay in or failure to supply or failure of the goods, including without limitations, loss or profits.
13. **Indemnity**
We shall not be liable for any claims whether brought against you or us at Common Law or under any Statute or otherwise by any person or legal entity arising out of this or any other we might have with you except as provided herein and you shall indemnify us against any such claims and the proper and reasonable costs of any such legal proceedings.
14. **Copyright**
The copyright in any goods, artwork, designs and plates furnished by us to you, vest in us and the same shall not now without our written consent be disclosed to a third party except in connection with the sale of the goods in the normal course of your business.
15. **Enforceability of Terms**
In the event of any one clause in this Contract being found by a Court or arbitrator to be void or unenforceable in whole or part then such findings shall in no way effect the validity and enforceability of any other clause or clauses.
16. **Governing Law**
The order in any contract which may ensue shall be construed and governed in all respects according to Irish Law and the only court having jurisdiction to try any issue hereunder shall be the high Court of Justice in Dublin or such other court in the Republic of Ireland as shall be appropriate.
17. Under no circumstances will any claims be entertained for goods which have been cut or processed in any way.
18. All specifications on products are subject to manufacturer tolerances +/-10%.



Purple Bale Charity Initiative

Zeus
We Make. We Supply. We Deliver.

Zeus, in conjunction with local partners, will distribute Silage Wrap & Net Wrap in the unusual colour **Purple**, across Ireland, UK, Portugal, Australia and New Zealand.



We are asking farmers and contractors to show their support to this initiative by creating eye-catching displays with their purple hay bales, then posting their creations on social media where we will give prizes

throughout the year to the farmers with the best efforts. We're sure that farmers will get behind this initiative, as every bale wrapped in purple will lead to a donation supporting seriously ill children and their families.

Our Charity Partners;

Ireland	UK	Portugal	New Zealand	Australia

What our Charity Partners say;

"We are completely overwhelmed by the support we have received over the past three years from Zeus. Every year, on average 150,000 children and their families visit Crumlin Children's Hospital from across the length and breadth of Ireland. Partnering with Zeus reflects the geographical spread of the hospital's patient base."

- Sarah Joyce, CMRF Crumlin

"We can't thank Zeus enough for their continued support of Starlight families through their ingenious Purple Bale Project. Through fundraising over the past two years, Zeus has made amazing contributions that have had a wonderful impact on Starlight children and young people. Children like Nicholas, who's wish to be a superhero has come true. Thank you so much to the whole Zeus team and everyone who supports their wonderful Purple Bale Campaign!"

- Mellisa Azzopardi, Starlight Children's Foundation

Over
€50K
raised for **CMRF Crumlin** since 2016



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