

High-Quality Filaments
Engineered in Germany

PERLON®
The Filament Company

Agricultural applications



Bayco®

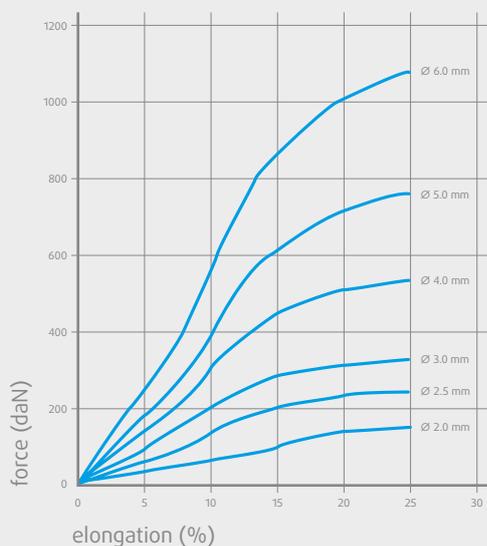


Clever solutions for agricultural applications

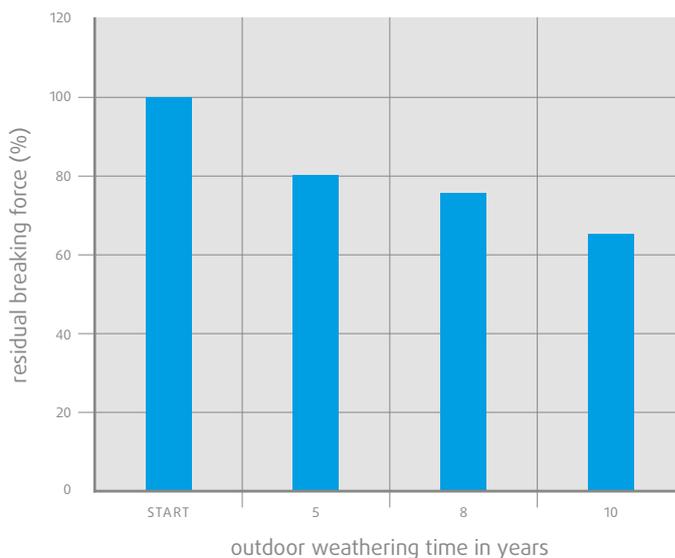
Thanks to extensively tested stabilizer systems, **Bayco®** Monofilaments (made of polyamide) are perfectly weather-resistant.

Stress-Strain-Diagram

Bayco® XV500 Ø 2.00 – 6.00 mm



All technical datas are mean values.



Type	Colour	Diameter	Breaking Force	Running Length
XV 500	black	2.00 mm	155 daN	approx. 270 m/kg
XV 500	black	2.50 mm	260 daN	approx. 180 m/kg
XV 500	black	3.00 mm	345 daN	approx. 120 m/kg
XV 500	black	4.00 mm	550 daN	approx. 69 m/kg
XV 500	black	5.00 mm	830 daN	approx. 45 m/kg
XV 500	black	6.00 mm	1150 daN	approx. 31 m/kg
X 511	white	4.00 mm	550 daN	approx. 69 m/kg
XV 505	grey	5.20 mm	1100 daN	approx. 41 m/kg
XV 400	white	3.00 mm	380 daN	approx. 120 m/kg

Bayco®



Bayco® Monofilaments

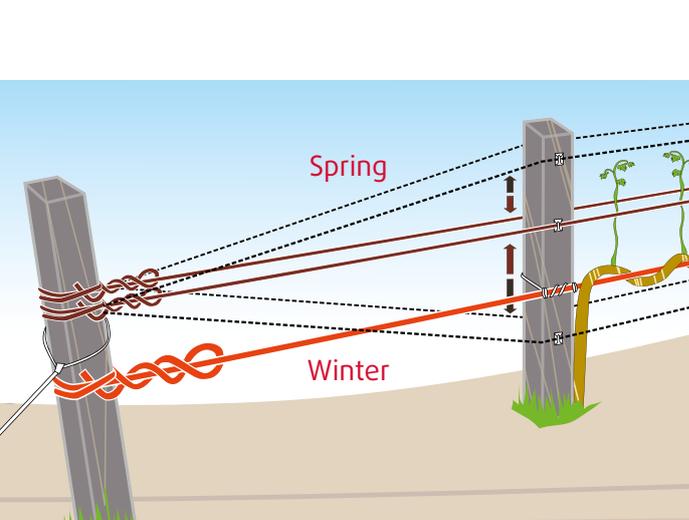
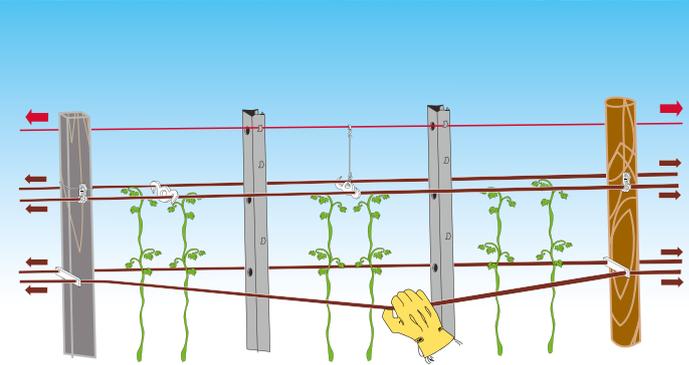
have been in permanent use for more than 30 years: they have proven successful

- pre-tensioned wires in vineyards
- fruit-growing
- greenhouse constructions
- hail-protection
- water-protection
- covering water reservoirs
- secure maintenance-free fences
- oyster farms, dealing with adverse conditions in abrasive saltwater

Benefits

- Durability
- Easy to work with
- No re-tensioning
- Unaffected by frost
- Smooth surface does not damage plants
- Approx. 1/7 the weight of common steel wire
- Lightning proof
- Does not rust
- Resistant to pesticides, fungicides and fertilizers
- Resistant to humic acid, saltwater, petrol, oil and fats
- Perfect for machine processing in vineyards



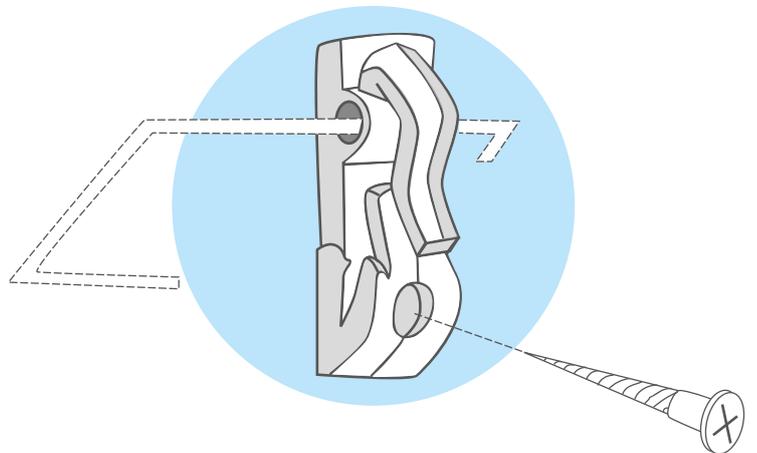
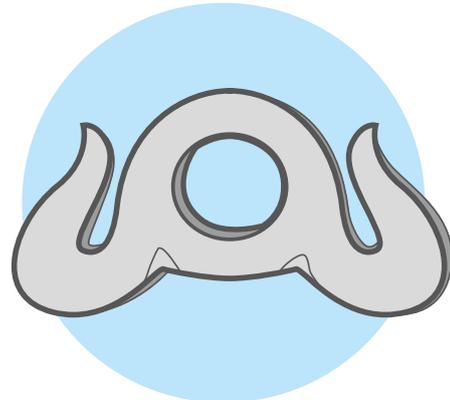


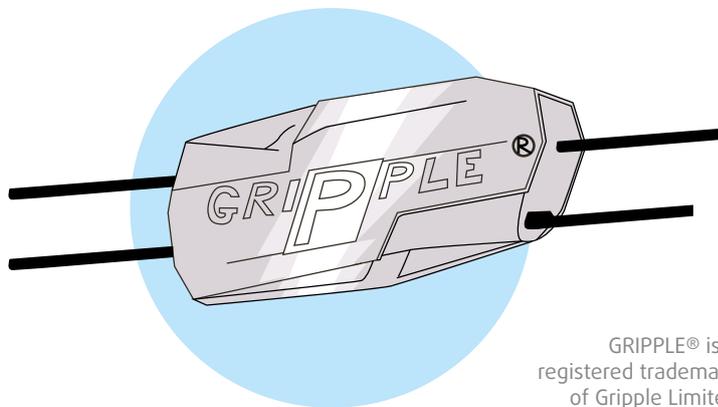
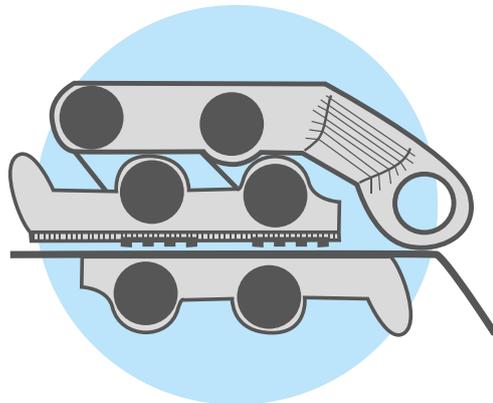
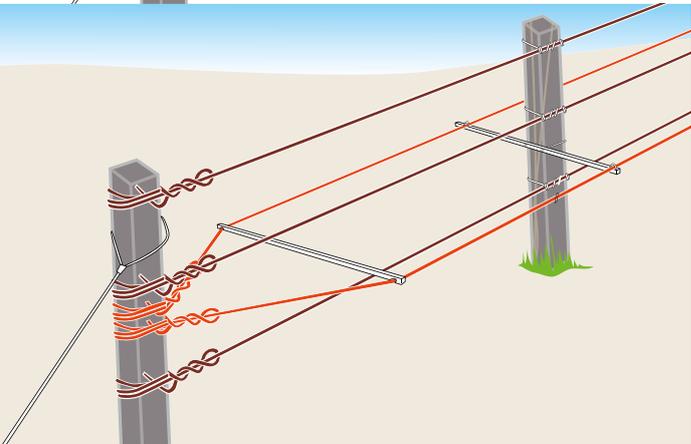
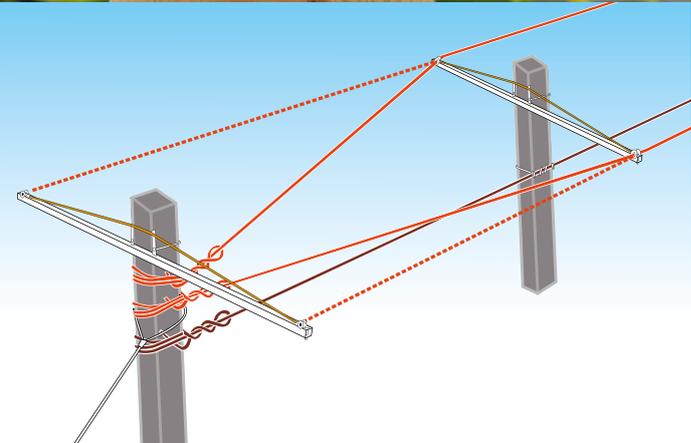
Winegrowing

Bayco®'s long-proven properties such as its ultraviolet stabilizers, make it the ideal wire for wine trellises.

Other benefits are:

- **Bayco®** is approx. 7 times lighter than steel wire. This allows for easy, economical handling in the vineyard, even on the steepest slopes.
- **Bayco®** retains its smooth surface. It does not corrode. Neither fertilizers nor humic acids will damage **Bayco®**.
- **Bayco®** retains its tension. Even in the hottest summer, our wire will remain as taut as on the day it was installed. Re-tensioning gear can be disposed of.
- **Bayco®** does not absorb cold as rapidly as metal wire, preventing frost damage to plants.
- **Bayco®** does not conduct electrical or electromagnetic waves.





GRIPPLE® is a registered trademark of Gripple Limited



Fruitgrowing

Bayco® is resistant to all weather conditions. Even harsh ultraviolet rays can do it no harm. It is simply made for espalier fruit growing. Even after many service years, the system will still be in great shape. **Bayco®'s** elasticity absorbs the power of mechanical harvesters and prevents the vibration being passed along to the following section. Furthermore, this elasticity, allows **Bayco®** to return to its prior shape. **Bayco®** does not corrode but remains smooth and prevents abrasion damage, reducing the possibly detrimental effects of contact points.



Hail protection

Weight is an important issue, especially in hail protection systems. Using heavy wires in hail protection systems means having to manage heavy loads at inconvenient heights. It also means designing and paying for oversized posts and anchors to carry the enormous weight. **Bayco®** is seven times lighter than common steel wire. Because of its elasticity, it can easily withstand the weight of hail or wind forces, relieving the entire hail protection system.

Bayco® is a poor conductor of heat so net-damage caused by heated wires is a thing of the past. **Bayco®** does not corrode but retains its smoothness throughout its life. Abrasion damage caused by rough wires is no longer a worry.



Greenhouses

Modern greenhouses are getting bigger and bigger. The challenge is to securely fix the foil sheeting without burdening the entire greenhouse construction with too much weight. Common steel wire is seven times heavier than **Bayco®**.

Its elasticity and stress-strain behavior makes it the perfect plastic wire for greenhouses. **Bayco®'s** smooth surface prevents fraying in the sheeting. By retaining its tension **Bayco®** helps protect the greenhouse in the roughest weather conditions. Its durability enables **Bayco®** wire to be re-used for a second and third generation of greenhouses. **Bayco®** monofilament – a clever investment in the future!





Horse fencing

The purchase of a horse is a considerable economic and emotional investment. The primary consideration for any horse fencing system should be safety. **Bayco®** fencing is designed to protect the horse. The wire will stretch to allow the animal poke its head through. Frisky horses won't hurt themselves when they crash into **Bayco®** wire.

Bayco® is durable, elastic, reusable and easy to set up. Anybody can work with **Bayco®**. Furthermore, thanks to **Bayco®**'s whiteness, the wire is always visible to the horse – even at night, giving the fencing a real feeling of open spaces. **Bayco®** is a real alternative to common horse fencing.

Oyster farming

Using **Bayco®**, oyster farmers in Australia have invented an innovative, adjustable long-line oyster farming system, which has received world-wide recognition. The system allows them to manage their oysters more efficiently and economically than traditional methods. It is easier to erect. Its maintenance costs are lower. Its yields are higher. **Bayco®**'s ultraviolet and weather resistance plus its resistance to salt water make it a solid long-term investment.

Water depot coverings

In a world where people are increasingly recognizing the importance of water, its storage and protection is becoming an ever more important issue. **Bayco®** plays a key role in modern water management. Extensive water depots are protected by high-tech geo textiles. When these are kept in place by heavy metal structures the wire can stretch and sink in due to adverse humidity and temperature differences. **Bayco®** retains its tension in all weather conditions. For example: More than 10 years ago, in cooperation with leading engineering companies, we successfully installed the first water depot covering in Spain. Time has shown that **Bayco®**'s elasticity has allowed the sheeting to deal with even the heaviest rainfall. The wire has retained its tautness and has been supporting water depot coverings for many years.

Bayco®

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