

High-Quality Monofilaments



Bayco®
Agriculture – Hail protection



Bayco®
Construction



Perlon® – The Filament Company

Perlon® - The Filament Company - is an innovative and global group of companies specialising in the production of synthetic filaments. We produce at sites in Germany, Poland, China, India and the USA. We offer an extremely diverse product portfolio for almost every technical application. We are constantly creating new solutions for unique products - Our Engineering. Your success.

Bayco® protects your plants perfectly – in the wind and weather

The stability of hail protection constructions depends on the resistance and quality of their individual elements. The high level of weather and UV stability means that Bayco® polyamide wire has proved itself as a reliable component in hail protection and shading systems.

Bayco® replaces the conventional metal ridge wires used to hold and tension the protective nets.

Due to its unique characteristics such as low weight combined with high breaking strength, Bayco® reliably relieves the strain and stabilises the entire protective construction during hail or storm. Thanks to its elasticity Bayco® effectively absorbs influencing forces whilst still remaining permanently taut. Time-consuming maintenance work, such as retightening the wire, is no longer needed.

Bayco® has a thermal conductivity 200 times lower than that of metal wires. Due to the non-rusting capabilities of the polyamide wire, the surface stays soft and smooth, this means that damage to the net caused by heated wires or friction is effectively avoided.

Bayco® monofilament from polyamide 6 for optimum hail protection

- Resistant to weather and UV influences
- Permanently smooth surface
- Low thermal conductivity
- Low weight
- High linear strength
- Available in diverse run lengths
- Highly viscous polyamide 6 types
- Bayco® 868ZW white
- Bayco® 867ZW grey
- Bayco® 856ZW black

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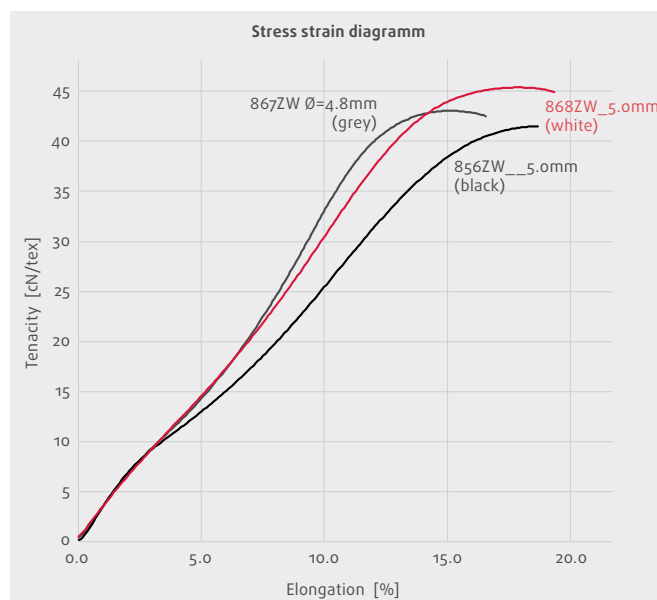
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Technical specifications

Bayco® stands out because of its low thermal conductivity and under identical conditions it transmits 200 times less heat to the net compared to metal wire.

| | Bayco® | Steel |
|-------------------------------|-------------|---------|
| Thermal conductivity W / (mK) | 0.25 – 0.35 | 48 – 58 |
| Thermal capacity J / (kg*K) | 2.300 | 500 |



| Type | Colours | Additives | Diameter | Breaking force | Run length |
|-------|---------|---------------------------------|----------|----------------|-----------------|
| 856ZW | black | UV, heat and weather stabilised | 4.00 mm | 500 daN | approx. 69 m/kg |
| 856ZW | black | UV, heat and weather stabilised | 5.00 mm | 830 daN | approx. 45 m/kg |
| 856ZW | black | UV, heat and weather stabilised | 6.00 mm | 1177 daN | approx. 31 m/kg |
| 867ZW | grey | UV, heat and weather stabilised | 4.80 mm | 858 daN | approx. 49 m/kg |
| 867ZW | grey | UV, heat and weather stabilised | 5.20 mm | 1100 daN | approx. 41 m/kg |
| 868ZW | white | UV, heat and weather stabilised | 5.00 mm | 1100 daN | approx. 44 m/kg |

Elongation at breaking force: 16–30 % depending on type and diameter; daN = kg

The data specified above is approximate based on non-climatised tests. A deviation of +/-10 % is to be allowed for.

This product information has been compiled to the best of our knowledge and with the greatest of care. We cannot, however, assume any liability for the accuracy, integrity or timeliness of its content. The technical parameters and the behaviour of the monofilament can vary depending on diameter and production technique.