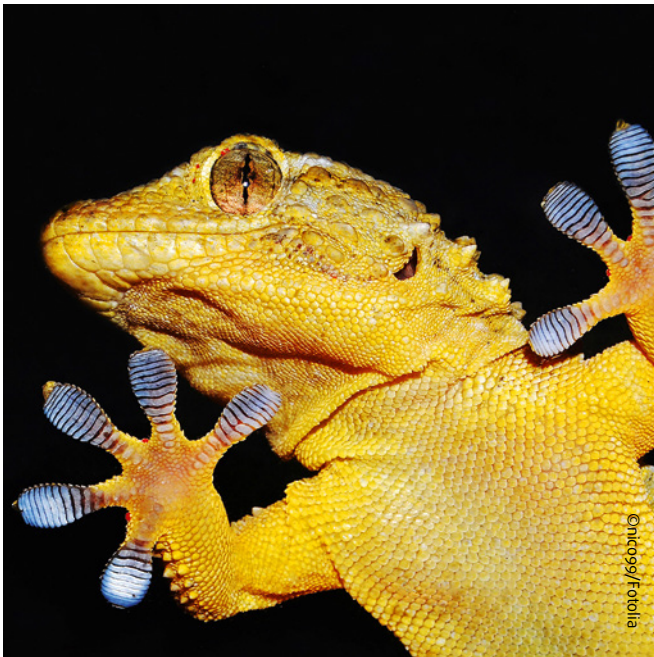


# HighGrip



## Perlon<sup>®</sup> – The Filament Company

Perlon<sup>®</sup> – The Filament Company – is an innovative, global group of companies specialized in the manufacture of synthetic filaments. Perlon<sup>®</sup> generates annual sales of more than 140 million euros, employs about 840 people and has a production capacity of 23,000 tons. We operate from locations in Germany, in the USA and in China.

Through our technical expertise and strength in innovation we develop premium quality products for our customers. The comprehensive product portfolio is based on a variety of raw materials. In line with the intended application, these are modified and processed into high quality, application-specific filaments. The consistent high quality of our products sets worldwide benchmarks.

## All under control with HighGrip

Optimize your processes – by using monofilaments with tailored tribological properties. Perlon<sup>®</sup> HighGrip is PET-based bi-component (biko) monofilament with functionalized surface. This concept allows the replacement of an additional coating. HighGrip thus ensures the performance of a conveyor belt remains constantly high. Keeping your performance under control.

HighGrip is available in various executions, 7\*\* (MJ/MR/NJ/IR/NR), with different tribological characteristics and various shell material fusing temperatures.

## The advantages of HighGrip at a glance

- Polyester-based monofilament (hydrophobic)
- Cost reduction through saving on the coating
- Permanent effect
- Bicomponents with core-shell structure
- Round and profiled diameters possible
- Very good textile characteristics

HighGrip can be used both in weft and in warp. Better cake debonding can be achieved through a combination with other monofilaments in warp or weft directions.

## Technical specifications

### Textile specific values

Type	710MR	710IR	710NR
Diameter (mm)	0.50	0.55	0.50
Linear density (dtex)	2,515 - 2,595	3,080 - 3,178	2,523 - 2,600
Strength (cN/Tex)	27 - 33	22 - 28	22 - 28
Elongation to failure (%)	36 - 47	40 - 48	37 - 45
Free thermoshrink @180 °C (%)	7.3 - 9.3	7.0 - 9.0	7.3 - 9.3

### Special characteristics of HighGrip

Type	Sheath softening Ts (°C) TMA Analysis	Level of grip	Thermo-mechanical resistance @180°C	Thermo-mechanical resistance @190°C
710/713 NR (_HT)	196 - 208	++++	++++	++++
710/713 IR HT	199 - 202/209 - 214	+++	++	+++
710 MR	196 - 200/208 - 210	++	++	++
710/713 MR HT	204 - 206/214 - 217	++	+++++	++
710/713 MR HTS	211 - 216	++	+++++	++

HT: High temperature (softening point)

HTS: High temperature + heat stabilized

**Brand related products:** 7\*\* IR, MR, NR, NJ, MJ

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.