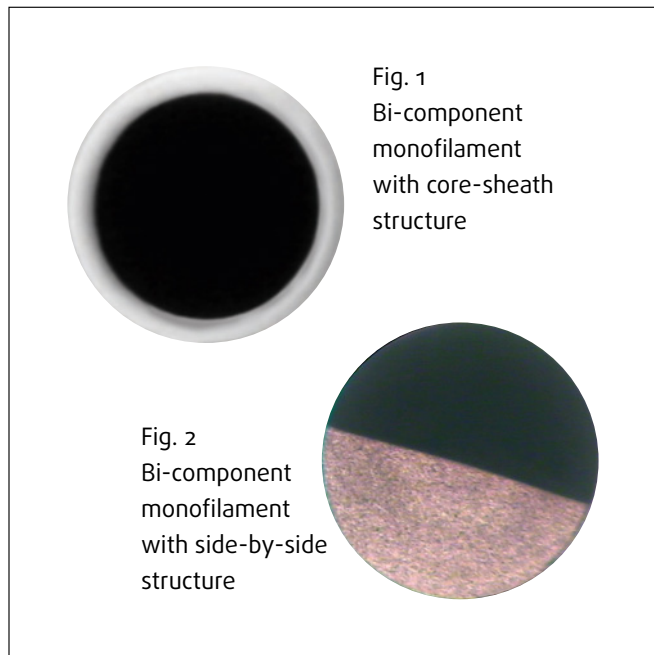


# Bico monofilament



## 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 150 million euros, employs about 850 people and has a production capacity of 23,000 tons. We operate from locations in Germany, Poland, 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.

## Extremely versatile – bi-component monofilaments

Co-extrusion is an example of versatile technology, which we call-on to develop unique functionalized monofilaments, with specific surface properties.

### Structure

Bi-component monofilaments are manufactured from two different polymer systems which are coextruded during production. Typically they are concentric core-sheath structures (see figure 1), our portfolio however also comprises other constructions such as side-by-side monofilaments (see figure 2).

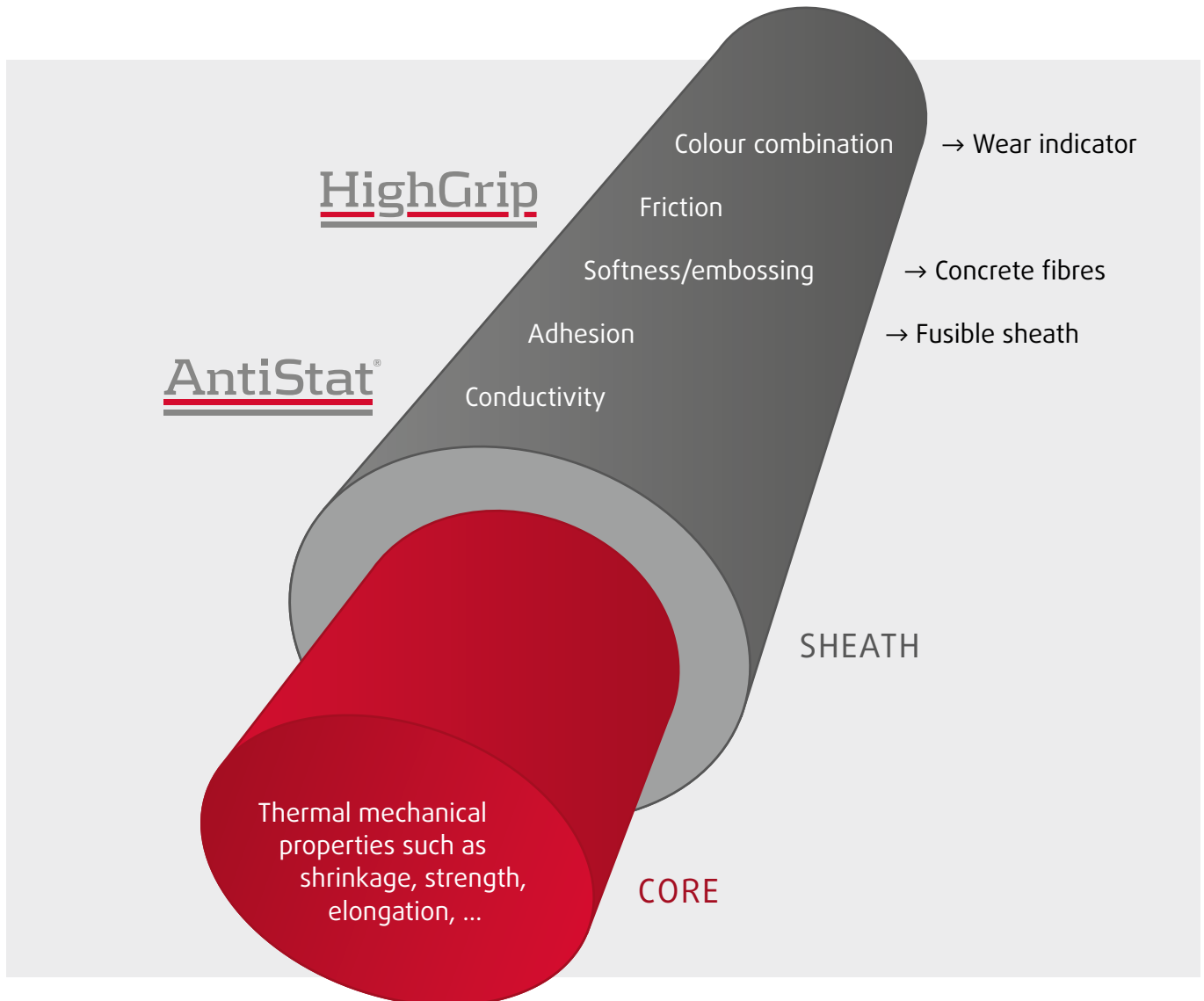
### Properties

The bi-component technology brings the functionality to monofilaments. The two polymers are put together in such a way that special properties can be developed thereby achieving for example dimensional stability, strength, elasticity of the core as well as lower melting temperatures or special surface properties of the sheath. A bi-component monofilament with fusible sheath can be used to produce a firm bond with a surface or also to permanently integrate a monofilament into a knitted construction or a weave.

### Customer and application specific products

The bi-component process is very versatile and allows for numerous combinations. Most products are therefore custom made solutions for special applications. Please contact us about your specific requirements.

## Functionalization



Brand related products: 7\*\*

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.