

# Technical Brush Filaments



## BioniFil® – Natural Hair Replacement

**BioniFil®**



### 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.

### Biomimetic filaments for technical brush manufacturing

BioniFil® is a synthetic brush filament range designed to mimic the structure, properties and functionality of natural animal hair.

#### Special features include:

- Specially developed rough surface finish
- Natural-looking matt appearance
- Improved moisture absorption (hydrophilic)

#### BioniFil® offers further benefits which natural hair cannot offer:

- Suitable for food contact applications
- No length restriction Ø 50 mm x 1200 mm hank packaging
- Consistent density, diameter & colour
- Can be stored for longer periods without risk of degradation
- Promotes clean and repeatable brush manufacturing
- Vegan

#### BioniFil® cannot replace natural hair with regard to the following:

- For use with solvents (e.g. paintbrushes)
- For use in very high temperatures (e.g. oven door seals)
- Where biodegradability is a requirement

#### Our range consists of the following products:

- BioniFil® H – Horsehair
- BioniFil® P – Boar bristle

Further products for substitution of natural hair are available on request.

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## BioniFil® – Natural Hair Replacement



### BioniFil® H Horsehair replacement

An ideal substitution for horsehair in technical brushes which require hygienic properties or contact with food, or which call for reproducible quality for clean environments:

Areas of application:

- Roller brushes to wash fruit and vegetables Roller brushes to polish or apply wax
- Door seal brushes

Filament construction:

- Mixture of light and dark filaments with different diameters
- Antistatic properties
- Conforms to food contact Norm EU10 / 2011 and FDA



### BioniFil® P Boar bristle replacement

Inspired by boar bristle, these filaments are characterised through their high-heat resistance and unusual colour, which gives a natural look.

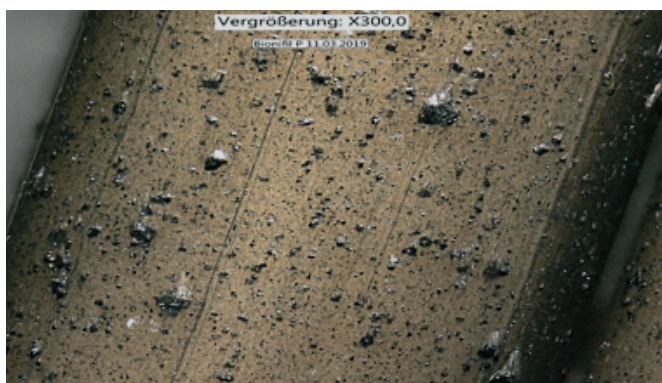
Areas of application:

- Replacement for stiffer Chungking bristles
- Hairbrushes
- Technical brushes

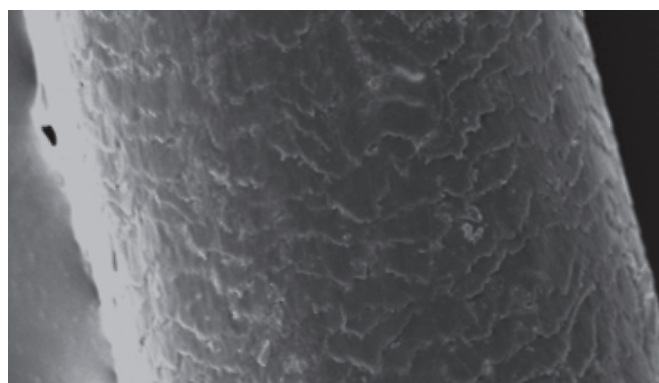
Filament construction:

- Bi-component construction with a lighter core and darker sheath
- Standard stock item in Ø 0.35 mm and Ø 0.45 mm
- Conforms to food contact Norm EU10 / 2011 and FDA

### Microscope picture of BioniFil® P ...



### ... and of a natural animal hair



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 filament can vary depending on diameter and production technique.