

## PERLON<sup>®</sup> – The Filament Company – presenting PearlTech<sup>®</sup>, a Monofilament with a special surface

We will be showcasing PearlTech<sup>®</sup>, our latest product brand at Tectextil in Frankfurt from 14th – 17th May.

**PearlTech<sup>®</sup>** is a monofilament which has special particles incorporated into it. The size and shape of the particles is irregular and the material is unrelated to the base polymer. PearlTech<sup>®</sup> is currently available in a PET based variant as well as in PA. The particles are added into the polymer melt and evenly distributed over the whole cross-section. These newly acquired properties remain intact throughout the lifetime of the monofilament. The particles incorporated into the polymer matrix protrude slightly from the monofilament surface, giving PearlTech<sup>®</sup> an interesting optical appearance and a structured surface finish.

PearlTech<sup>®</sup> provides improved stability against wear, reduces machine power consumption (along the lines of Perlon<sup>®</sup> Enersave<sup>®</sup>) whilst reducing the build-up of dirt on the end product. This is in comparison to standard polymers. The particles have no negative effect on hydrolysis resistance and furthermore offer the possibility to avoid the use of fluoropolymers. For this reason, PearlTech<sup>®</sup> provides a viable alternative to Perlon<sup>®</sup> EasyKleen<sup>®</sup> monofilament. PearlTech<sup>®</sup> monofilaments are notably used in sieves for the paper industry. They can also be used in the field of Advanced Technical Textiles for example in filtration (in particular solid-liquid separation) and in conveyor belt fabric. Through its ability to be customized, PearlTech<sup>®</sup> opens up the market for a host of new possibilities.

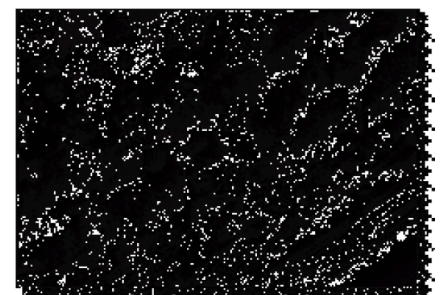
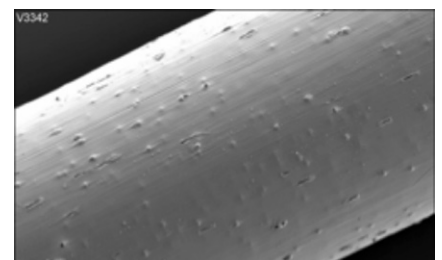
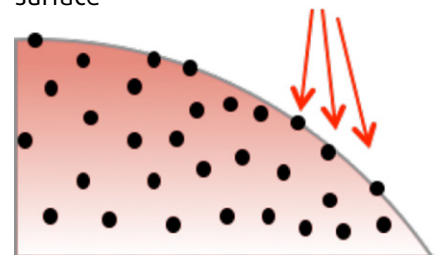
Our Perlon<sup>®</sup> QualiFil<sup>®</sup> range includes monofilaments with special properties such as flame retardancy (FireRetard<sup>®</sup>), elasticity (ElaSTer<sup>®</sup>), abrasion resistancy (DuraFil<sup>®</sup>), stain resistancy (EasyKleen<sup>®</sup>), energy efficiency (Ener-Save<sup>®</sup>) and UV stability. To avoid the need for a separate coating process, Perlon<sup>®</sup> has developed HighGrip monofilaments with tribological properties. These PET based Bi-Co monofilaments have a specific surface with special adhesive properties and different softening points. Bayco<sup>®</sup> (monofilaments for agriculture), Atlas<sup>®</sup> (Monofilaments for nautical rope) and PerlonXline (monofilaments for angling) round off the QualiFil<sup>®</sup> brands.

Perlon Group understands the need for sustainability in the future. We are currently developing and carrying out research in the bio-monofilament field. Here we are looking into extrudable bio-based as well as biodegradable polymers with the aim being a sustainable monofilament for individual use in your end product. Get in touch with us!



# PearlTech<sup>®</sup>

Micron-sized particles form the surface



### **Company Information**

Perlon<sup>®</sup> – The Filament Company – is the world's leading manufacturer of synthetic filaments and generates annual sales of over 135 million Euro, employs more than 850 people and operates from locations in Germany, USA and China. [www.perlon.com](http://www.perlon.com)

Perlon<sup>®</sup> is a part of the diversified positioned Serafin Group, whose philosophy is based on more than 150 years of entrepreneurial tradition of its shareholding family. Serafin invests into companies with the aim to foster their long term development in accordance with all stakeholders. The development of Serafin is accompanied by the expertise of its advisory board members Prof. Dr. Bernd Gottschalk, Wolfgang Ley and Prof. Dr. Heinrich von Pierer. [www.serafin-gruppe.de](http://www.serafin-gruppe.de)