

Oerlikon and Haelixa make supply chains in textile end products traceable

Oerlikon and Haelixa collaborate for sustainable and transparent textile supply chain with product traceability.

SHANGHAI, CHINA, November 20, 2023 /EINPresswire.com/ -- In partnership with [Haelixa](#), [Oerlikon](#) Manmade Fibers Solutions will achieve transparency and sustainability across the entire textile value chain. The two partners offer a solution for comprehensive product traceability, as required by the European Green Deal.

An essential part of the solution is the DNA marker technology developed by Haelixa that enables complete traceability of materials. These markers survive all production process steps, validating that the end product is identifiable. "This innovative technology employs distinct DNA tailored for each project, establishing a unique identity for the material," explains Holly Berger, Marketing Director at Haelixa. "Once the DNA is integrated into the material, it becomes irremovable, impervious to falsification or alteration." Handling is straightforward: the DNA marker is fed into the spinning process with the preparation oil, for example. The preparation system is modified accordingly. Further feeding options are currently being developed.

Smart factory: total transparency with atmos.io

The concept is complemented by atmos.io, Oerlikon's digital platform, which records and evaluates extensive production and process data during the yarn manufacturing process. Atmos.io gives the yarn its digital identity during its time on Oerlikon systems, from the melt to the packaged package. This technology has been used successfully for some time to monitor the production process. With atmos.io, deviations in process parameters and yarn data can be



In combination with Oerlikon's atmos.io digital platform, Haelixa's DNA marker technology makes the clear traceability of textile products a reality.



The unique DNA carries the 'roots' of the yarn digitally recorded in atmos.io into the everyday life of the end consumer."

Jochen Adler, CTO at Oerlikon

identified and rectified within a very short time, which in turn keeps the yarn quality stable and reduces waste rates.

Combining both technologies enables clear traceability of the yarn produced, even in the downstream process steps. Hence, the yarn's components, qualities, manufacturing conditions, and origin are traced beyond doubt in the finished garment. "The unique DNA carries the 'roots' of

the yarn digitally recorded in atmos.io into the everyday life of the end consumer," says Jochen Adler, CTO at Oerlikon Manmade Fibers. The textile end products meet the requirements of the digital product passport required by the EU, which contains the information needed to assess their life cycle assessment and circularity. Initial long-term tests have shown 100% traceability of the yarns in the POY and FDY spinning process. If the yarn manufacturer relies on the atmos.io platform, production systems can be adapted relatively easily to use the DNA markers.

About Oerlikon Polymer Processing Solutions Division

Oerlikon is a leading provider of comprehensive polymer processing plant solutions and high-precision flow control component equipment. The division provides polycondensation and extrusion lines, manmade fiber filament spinning solutions, texturing machines, BCF and staple fiber lines, and nonwoven production systems. It also develops and produces advanced and innovative hot runner systems and multi-cavity solutions for the injection moulding industry. Its hot-runner solutions serve business sectors, including automotive, logistics, environmental, industrial applications, consumer goods, beauty, personal care, and medical. Moreover, Oerlikon offers customised gear metering pumps for the textile, automotive, chemical, dyes and lacquer industries. Its engineering competence leads to sustainable and energy-efficient solutions for the entire polymer processing value chain with a circular economy approach.

Oerlikon Polymer Processing Solutions Division serves customers through its technology brands – Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow – in around 120 countries with production, sales, distribution and service organisations.

The division is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 13'000 employees and generated sales of CHF 2.9 billion in 2022.

For further information: www.oerlikon.com/polymer-processing

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