

### LeMur Innovative elastic silicon yarn

The Italian company LeMur SpA, Ala, as a conventional covering plant specialized on fine counts, has developed an innovative spinning technology which leads to the unique continuous silicon yarn muriel.

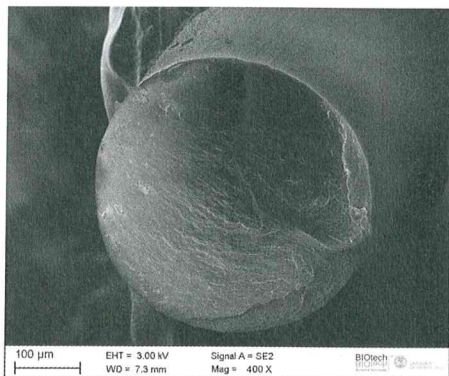
This elastic yarn with low force has very good potential in diverse applications with special features: biocompatible, high adhesion, electrical conductivity, thermal stability, resistance to UV-rays.

These properties created a variety of special products: muriel-med distinguishes itself through excellent biocompatibility in plastic surgery, muriel-ray is resistant to UV rays and many chemicals.

The thermal behavior of muriel-ts makes it stable mechanically in a temperature range between -40 up to +350 °C, in contact with the flame it disintegrates in not burning ash and non-toxic fumes are released. muriel-sensor makes it possible to measure electrical resistivity variations according to the deformation.

muriel-grip is using its high friction between any kind of surfaces to build up areas with anti-slip features on products like socks, tights, sport and underwear, gloves and medical articles

Muriel elastic silicon yarn (LeMur)



### Lenzing Instruments Quality and process control systems

The Austrian company Lenzing Instruments GmbH & Co. KG, Gampern, develops and manufactures both laboratory testing equipment as well as online systems for continuous and real time monitoring of vital quality parameters. Exhibited at the Techtextil is one of the new developments within the field of entanglement nodes of interlaced yarns, Rapid 600, which is now available in 2 versions: Rapid 600 standard version for high volume, mechanical testing with node quality classification and statistical evaluation according to ASTM D4724. A new feature is the optionally integrated optical sensor for high-speed testing mode. The new version is intended for absolute determination of the maximum node distance; featuring the node quality classification and the option for testing with an optical sensor as well. Both versions feature automatic string-up and sample removal.

Invispec is the latest development for inspection of aesthetical and physical defects on all kinds of woven materials and fabrics. The system offers detection of all kinds of defects, independent of defect size or material characteristics – it is even suitable for highly reflective and glossy materials. It adjusts automatically to various defects and there is no need for re-programming of the software logarithm when new defects are presented to the system.

For detection of broken filaments and fluff on filament yarn, the company offers various possibilities: One of them is the sensor Prompt FFD, which provides online process control with a clear distinction between broken filaments and fluff. Together with the Prompt Visualization software, it forms a system which offers vast possibilities for real time process control and historical data analysis. For visualization of detected de-

fects, Prompt FFD may be combined with the camera system Fray Vies. Each detected event triggers the camera to generate a separate image of each defect. The images give yarn producers a sophisticated tool for thorough problem analysis and further action taking towards improved product quality. Fray View may be used together with an already existing Prompt FFD installation or as a single unit with an integrated Prompt FFD sensor.

One of the newcomers for detection of the spin finish level on filament yarn is Opumeter. With it, spin finish testing becomes quick and easy: It measures the spin finish level online, directly in the production on the running yarn. The measurement result is generated just a few seconds after the handheld instrument has been presented to the yarn.

### Klieverik Belt calenders for laminating

The Dutch company Klieverik Heli B.V., AT Oldenzaal, is focused on rotary thermo-processing machines for advanced textiles and manufactures stand-alone equipment and complete production lines. The versatile machinery provides added value and improves the efficiency of textile printing and finishing operations.

The company offers a complete range of belt calenders suitable for laminating a variety of substrates, to give the perfect match for production requirements. Coating, laminating, heat-setting; it can all be done on the same calender. Accurate control of temperature, pressure, substrate guiding and tension, results in high quality end-products that can be reproduced over and over again.

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