Innovation in Textiles

Fibres/Yarns/Fabrics

Performance Days focus on cutting carbon

CCU technology converts and recycles waste carbon dioxide into ethanol.

Everest's double jersey knitted fabric made with CCU polyester.
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Ahead of the next Performance Days exhibition which will take place in Munich, Germany, from November 3-4, a collection of fabrics with lower carbon production footbrints is currently being highlighted on the show's digital platform, The Loop.

Included are new materials from Shinkong and Everest which both employ new carbon capture and utilisation (CCU) yarn, developed in Taiwan as a step towards eventually achieving zero carbon emissions. CCU is an advanced technology which captures waste carbon dioxide from steel mills, petrochemical plants etc., and converts and recycles it into ethanol through fermentation, as a monomer for new polyester.

Shinkong Textile's new four-way stretch material is made of 86% CCU polyester and 14% elastane, while Everest's double jersey knitted fabric is 84% CCU polyester and 16% elastane.

Other new materials from Taiwan featured in the latest Loop collection include Axroma's Outdoor Mackintosh Air ripstop shell – a 100% solution dyed polypropylene fabric with a recycled TPEE (thermoplastic elastomer) membrane for PFC-free durable water repellancy, as well as strong abrasion.

Ynviron from Antex is a recycled polyester which has been dope dyed in a process achieving significant savings in terms of water and energy consumption.

Also featured is Radilon Solution – a new solution-dyed PA6 microfibre from Italy's RadiciGroup. Radilon Solution is a round cross-section nylon yarn with a very fine dpf and an excellent colour fastness. It comes in 12 colours and is dyed in a one-step dyeing process in which masterbatches are added to the raw polymer before it is extruded into fibres.

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