

Press release

Oerlikon Neumag at DOMOTEX 2020

BCF S8 with CPC-T - color separation has never been so easy

Neumünster, 20. December 2019 – Oerlikon Neumag promises more flexibility in the color pattern design of carpets with the latest carpet yarn system BCF S8 at DOMOTEX 2020 in Hanover. All trade fair visitors can convince themselves of the possibilities for product differentiation in Hall 11, Stand A36.

Multi-colored carpets are becoming increasingly popular and the desire for significantly more flexible color mixing variants for product differentiation is increasing. Oerlikon Neumag has focused on this and developed the BCF S8, a platform that leaves nothing to be desired when it comes to the color separation of tricolor yarns - from mélange to strongly separated.

Over 200,000 different shades out of three colors

The core component in this process is the new, patent-pending Color Pop Compacting Unit (CPC-T) for an even more flexible and even color separation. Individually controllable air pressures per color in the CPC-T provide a pre-tangling, which results in an accentuation of the colors and thus enables over 200,000 different shades.

Color Pop Compacting also for PA6 yarns

Until now, it was difficult to produce highly color-separated or accentuated BCF yarns from polyamide 6, but in the future, this will be possible thanks to the CPC-T. Thanks to the new design, the CPC-T is now also suitable for processes with low thread tensions.

RoTac³ tangle unit with extensive modifications

Significant technological changes to the RoTac³ tangle unit lead to even more efficient BCF yarn tangling. On the one hand, the nozzle has been optimised flow-wise so that the air pressure can be reduced by approx. 10% compared to the previous version with the same knot strength. Furthermore, the nozzle bearing arrangements have been improved. As a result, either higher speeds or nozzle rings with a higher number of holes can be driven, which results in even more knots in the yarn.

The RoTac³ is part of the standard scope of delivery for the newer BCF S8. The tangle unit is optionally available for the single-thread Sytec One plant as well as for the three-thread S+ and can be retrofitted on request.

Oerlikon Manmade Fiber solutions for PET carpet applications now cover a range from 0.5 to 30 dpf

In addition to the BCF S8 technology described above, Oerlikon Manmade Fibers offers another system concept based on a POY and texturing process. This configuration is designed for a carpet and home textile product range, which is based on a very soft and puffy polyester thread with BCF-like properties due to the small dpf. The target is yarns with a titer up to a maximum of 1300dtex and typically over 1000 filaments. Typical products are, for example, a 1300dtex f1152 or 660dtex f1152 and 990dtex f768. The machine concept consists of the well-known WINGS HD POY winder and the new eAFK Big-V texturing machine.

2,918 characters including spaces



Image caption: BCF S8 Tricolor



Image caption: Color separation with CPC-T (from left to right: mélange, color pop, one color separated)

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About Oerlikon

Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corporation continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities. Oerlikon is a globally-leading technology and engineering corporation, operating its business in two segments (Surface Solutions and Manmade Fibers) and employing around 10,500 members of staff at 175 sites in 37 countries worldwide. In 2018, Oerlikon generated sales of CHF 2.6 billion and invested around CHF 120 million in research & development.

For further information: www.oerlikon.com



About Oerlikon Segment Manmade Fibers

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. As a future oriented company, the research and development at this division of the Oerlikon Group is driven by energy-efficiency and sustainable technologies (e-save). With the supply of continuous polycondensation and extrusion systems and their key components, the company caters to the entire process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off by automation and industry 4.0 solutions. The primary markets for the products of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically-leading products for tomorrow's world.

For further information: www.oerlikon.com/manmade-fibers