

Press release

Bicomponent yarns offer diverse application possibilities

New spin beam for sensitive bicomponent filament yarns

Remscheid, Milan, November 12-19, 2015 – A new spinning concept now makes it possible to transform sensitive polymers into bicomponent filament yarns in the area of filament yarns as well. The new technology is based on a temperature separation of the two polymers that feed into the Bico yarn.

SP8xB dual temperature bico spinning unit

Depending on the application, polymers are processed at great temperature differences to be able to guarantee the produced yarn's good spinnability and high quality. The new SP8xB dual temperature spin beam concept ensures the strict temperature separation between polymer type A and polymer type B. With that, the polymers' quality and viscosity can be adjusted to match the exact process requirements. The strict separation of the HTM-heating of both polymer supplies as well as the spinning pump ensures the least possible damage to each type of polymer up to just before the point where both components are combined in the spin pack. This in turn guarantees optimal spinning conditions.

The new system is based on the SP8xB spin beam concept and naturally offers the same energy advantages over the rectangular concept. Less sensitive polymers can also be manufactured with the standard SP8xB bico spinning unit without problems.

Over the past few months there has been a clear trend towards rising demand for Bico yarns. One reason for this development is that the market for commodity yarns is currently considered saturated and many yarn manufacturers are searching for niche markets. Moreover, new applications and treatment possibilities have been developed in the further processing of yarns.

Bicomponent yarns offer a huge range of possible cross-sections. In general, these yarns comprise two different polymers, which give them specific properties. Bicomponent yarns with the corresponding cross-sections are manufactured depending on the desired application. Here, the four best-known cross-sections are core sheath, side by side, segmented pie and islands in the sea.

325 words

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About Oerlikon

Oerlikon (SIX: OERL) is a leading, globally-active technology group supplying growth markets with market-leading technologies and services for surface solutions, systems for manufacturing manmade fibers, transmission systems and drive solutions as well as pre vacuum and high vacuum technologies



and pumps and the corresponding accessories. The leading Oerlikon technologies enable customers to increase their product performance and productivity, utilize resources and energy more efficiently and make a contribution towards sustainable development. As a Swiss company with a history stretching back more than 100 years, Oerlikon and its in excess of 15,500 employees are present at more than 200 sites in 36 different countries. In 2014, sales totalled CHF 3.2 billion. The company, which invested CHF 121 million in research and development in 2014, employs more than 1,300 specialists for developing innovative and customer-oriented products and services.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag and Oerlikon Neumag brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and artificial turf systems 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. With the expansion of the product range to include polycondensation systems and their key components, the company now caters to the entire process – from the monomer all the way through to the textured yarn. The primary Oerlikon Barmag markets are in Asia, and – for Oerlikon Neumag – in the USA, Turkey and China. Correspondingly, Oerlikon Barmag and Oerlikon Neumag – with just under 2,500 employees – have a worldwide presence in 120 countries as part of the Oerlikon Manmade Fibers network of production, sales and distribution and service organizations. At the R&D centres in Remscheid, Neumünster and Chemnitz, highly-qualified engineers and technicians develop innovative and technologically-leading products for tomorrow's world.

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