

Press Release

Recycling polyester

perPETual and Polygenta manufacture rPET FDY using Oerlikon Barmag's WINGS

Remscheid, 12 March 2020 - The Indian yarn manufacturer Polygenta, specialized on the manufacturing of sustainable recycling yarns, recently commenced production of recycled polyester FDY yarns at its facilities in Nashik. The yarn is produced using a combination of perPETual Global Technologies patented chemical recycling technology and Oerlikon Barmag's direct spinning system equipped with the 32-end WINGS concept.

The spinning plant was commissioned by Oerlikon Textile India technologists in close collaboration with the process experts at Oerlikon Barmag, with various FDY products currently being developed. The yarn produced caters to the requirements of premium-segment clients demanding high quality, cost effective sustainable solutions.

As one of the world's first companies, Polygenta has, since 2014, been producing 100% recycled POY and DTY from post-consumer PET using the patented chemical recycling process developed by perPETual Global Technologies. perPETual's process reduces CO2 impact by more than 66% compared to virgin PET. The yarn is spun using Oerlikon Barmag systems and equipment. As a result, Polygenta is able to produce a wide range of DTY and FDY yarns that comply with the Global Recycled Standard (GRS).

1315 characters incl. spaces



Caption: Applicable also for the processing of rPET yarns: Oerlikon Barmag spinning concepts with WINGS FDY.



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About Oerlikon

Oerlikon (SIX: OERL) engineers materials, equipment and surfaces and provides expert services to enable customers to have high-performance products and systems with extended lifespans. Drawing on its key technological competencies and strong financial foundation, the Group is sustaining mid-term growth by addressing attractive growth markets, securing structural growth and expanding through targeted mergers and acquisitions. A leading global technology and engineering Group, Oerlikon operates its business in two Segments – Surface Solutions and Manmade Fibers – and has a global footprint of more than 11 100 employees at 182 locations in 37 countries. In 2019, Oerlikon generated CHF 2.6 billion in sales and invested more than CHF 120 million in R&D.

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