Recycling polyester

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

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 spin- ning 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 per-PETual 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).



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