

# Innovation in Textiles

Company is the largest recycler of post-consumer PET bottles in Europe.



**Comfortemp Flexx is made from 97% recycled polyester.**

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Freudenberg Performance Materials Apparel will be showcasing two new solutions for the sports and outdoor sector at the digital Performance Days exhibition from May 17 to 21, 2021.

Most of the products in the company's new Active Range are made from at least 70% recycled polyester that is produced in a closed loop system from used PET bottles. Freudenberg recycles around seven million of these plastic bottles per day, making it the largest user of post-consumer PET bottles in Europe.

Within the Active Range, a special technology ensures that highly-elastic outer fabrics retain their flexibility and remain breathable, despite being fixed. Due to highly-developed adhesive polymers, selected products in the range are suitable for even the most complicated outer fabrics that are difficult to process. The bonding compound is applied to a carrier material in the form of small dots without using a base material. In addition, the Active Range also features sewable interlinings that allow a natural yet elastic feel while keeping the garment in the desired shape - the solution for outer fabrics that do not allow fixation or where no fixation of the interlining is desired.

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Comfortemp Flexx is meanwhile the first adaptive insulation comprising a warming and breathable padding with elastic reinforcement elements made from 97% recycled polyester.

Thin, extremely air-permeable and breathable, it is said to be ideal for use in outdoor sportswear designed for cycling, running and skiing. When the wearer moves, the padding expands, and when movement stops, the padding contracts again. The high-performance thermal insulation even keeps the wearer warm when wet and has stretch content of up to 20%. The processing of the padding using reinforcement threads also prevents fibre migration through the outer fabric. Comfortemp Flexx complies with the Oeko-Tex standard and is supplied by the metre, reducing production time and processing costs for garment manufacturers.

[www.performancedays.com](http://www.performancedays.com)

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