



Demgy reinvents new manufacturing processes

At Global Industrie 2024, the Demgy Group demonstrated its expertise and know-how with the Reborn shoe, whose sole is made from used products. A specialist in complex lightweight parts, the group's added value lies in its ability to combine several plastics technologies (decoration, assembly, 3D printing, metallization, polishing, etc.). Details of the technology.

Demgy Group, Decathlon and Lonati Group unveil a concept for shoes made from waste. To produce this shoe, whose project is called Compresoor, Decathlon called on Demgy's expertise in thermocompression of plastics and on Lonati's expertise in knitting machines for shoe uppers. This innovative shoe combines a sock manufactured by Lonati with an innovative outsole produced using Demgy's plastics expertise. Demgy's thermocompression press produces the shoe's outsole from waste material, highlighting Demgy's expertise in polymer and composite processing. The first result of this joint project is a TPU outsole, composed of 70% recycled TPU from the water pockets of Decathlon's running department. *"We're taking on a technological challenge. Recycling waste is extremely complex. The idea is to leave no waste behind. So we've teamed up with the best, combining all the expertise of Demgy, Lonati and Decathlon, and we've worked hard to meet this challenge,"* explains Matthieu Crepin, Managing Director of Demgy Atlantique.

By using waste as a raw material, the shoe extracts less virgin raw material and gives a 2nd, 3rd, 4th... life to these plastics. The glue-free assembly method used to manufacture the shoe means that the upper and sole can be disassembled and recycled. All this contributes to a more sustainable and environmentally-friendly product. The design process managed by Decathlon now takes into account - from the outset - the end-of-life of products. While designing more resistant and carbon-free products, Decathlon's teams are already thinking about how they will be able to dismantle and recycle this recycled shoe...

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