From Waste to Hose: Turning PVC into a Sustainable Resource

An Industrial Responsibility

Every year, thousands of tonnes of PVC enter our production process. For a hose manufacturer, the challenge is not simply to replace this material, but to use it differently: preserving its technical value while reducing reliance on virgin resources.

Our response is not a single product or a separate environmental programme. It is an industrial transformation: turning PVC waste into a reusable resource while maintaining the reliability and performance expected by our customers.

Building a Circular Loop

TRICOFLEX chose not to remain passive in the face of this challenge. Production offcuts were no longer considered simply as manufacturing output, but as the starting point of a new production cycle. These offcuts are collected, shredded and mechanically separated to recover PVC from textile reinforcement. This separation step is essential: it allows a complex, textile-reinforced material to be turned back into usable PVC. The recovered PVC is then extruded into recycled granules and reintroduced into the manufacturing process to produce new hoses.

This circular loop reduces our dependence on virgin PVC, a material linked to petrochemical resources and carbon impact.

Making Circularity Industrial

To make this model reliable at industrial scale, TRICOFLEX has adapted its production capabilities, processes and quality controls. Our ambition is not simply to recycle more. It is to integrate recycled materials into technical products used in agriculture, industry, construction and other demanding environments, without compromising performance.

This transformation is supported by recognised external references, including LNE* certification, the MORE label and an EcoVadis Silver Medal*. LNE* certification independently verifies the incorporation of recycled plastic materials into TRICOFLEX products, while the EcoVadis Silver Medal places TRICOFLEX among the top 15% of assessed companies for sustainability performance.

* See Appendix for supporting references and certifications.

Measurable Results

Today, TRICOFLEX incorporates around 2,200 tonnes of recycled PVC every year, representing an average recycled content of 26% across production. By 2030, our objective is to reach 50% recycled PVC, equivalent to approximately 4,000 tonnes reintegrated annually into our products. This ambition relies on increasing the incorporation of recycled PVC across a broader range of products while continuing to expand our internal recycling capabilities.

This trajectory contributes directly to resource preservation and to the decarbonisation of our activity by replacing part of the virgin PVC used in our manufacturing process. Half of our annual investments are dedicated to this transition.

TRICOGREEN®: Innovation in Practice

TRICOGREEN® is the most visible proof that this industrial model works. This knitted, multi-layer hose is designed for demanding uses in agriculture, industry and construction. Crafted with 80% recycled PVC and certified by LNE*, it offers performance equivalent to TRICOFLEX® while demonstrating that high recycled content can meet demanding application requirements.

TRICOGREEN® also makes the environmental benefit concrete for users: compared with a traditional hose, it enables an estimated reduction of around 50% in GHG emissions. It is therefore not the starting point of our circularity project. It is the industrial demonstration that the model can deliver certified, market-ready results.

Continuing the Transformation

Our ambition extends beyond the results already achieved. By increasing recycled PVC incorporation across a broader range of products and continuing to develop our internal recycling capabilities, we aim to strengthen this circular model while maintaining the reliability and performance expected by our markets.

Looking Ahead

From waste to hose, our innovation is not replacing PVC: it is proving that PVC can become part of a circular economy.

At TRICOFLEX, sustainability is part of the same industrial responsibility that has guided our company for nearly 70 years: applying rigour, reliability and long-term commitment to the challenge of circularity and resource preservation.

* See Appendix for supporting references and certifications.