



PURE-FIT® TCL CLAMPS

Leveraging Saint-Gobain Life Sciences' material expertise to reduce environmental impact

Saint-Gobain Life Sciences is proud to introduce the new Pure-Fit® TCL clamps, now made with Polybutylene Terephthalate (PBT).

Transitioning from Polyvinylidene Fluoride (PVDF) to PBT brings significant environmental benefits while maintaining the exceptional performance our customers rely on.

A comprehensive cradle-to-gate Life Cycle Assessment (LCA) was conducted following the ISO 14040 and 14044 standards. The Environmental Footprint (EF 3.1) Impact Assessment method was used to calculate the Climate Change - Total impact. The LCA modeling was performed using Sphera LCA for Experts software. The results have been independently verified by a third party, confirming the environmental advantages of this improvement.

Transitioning from PVDF to PBT:

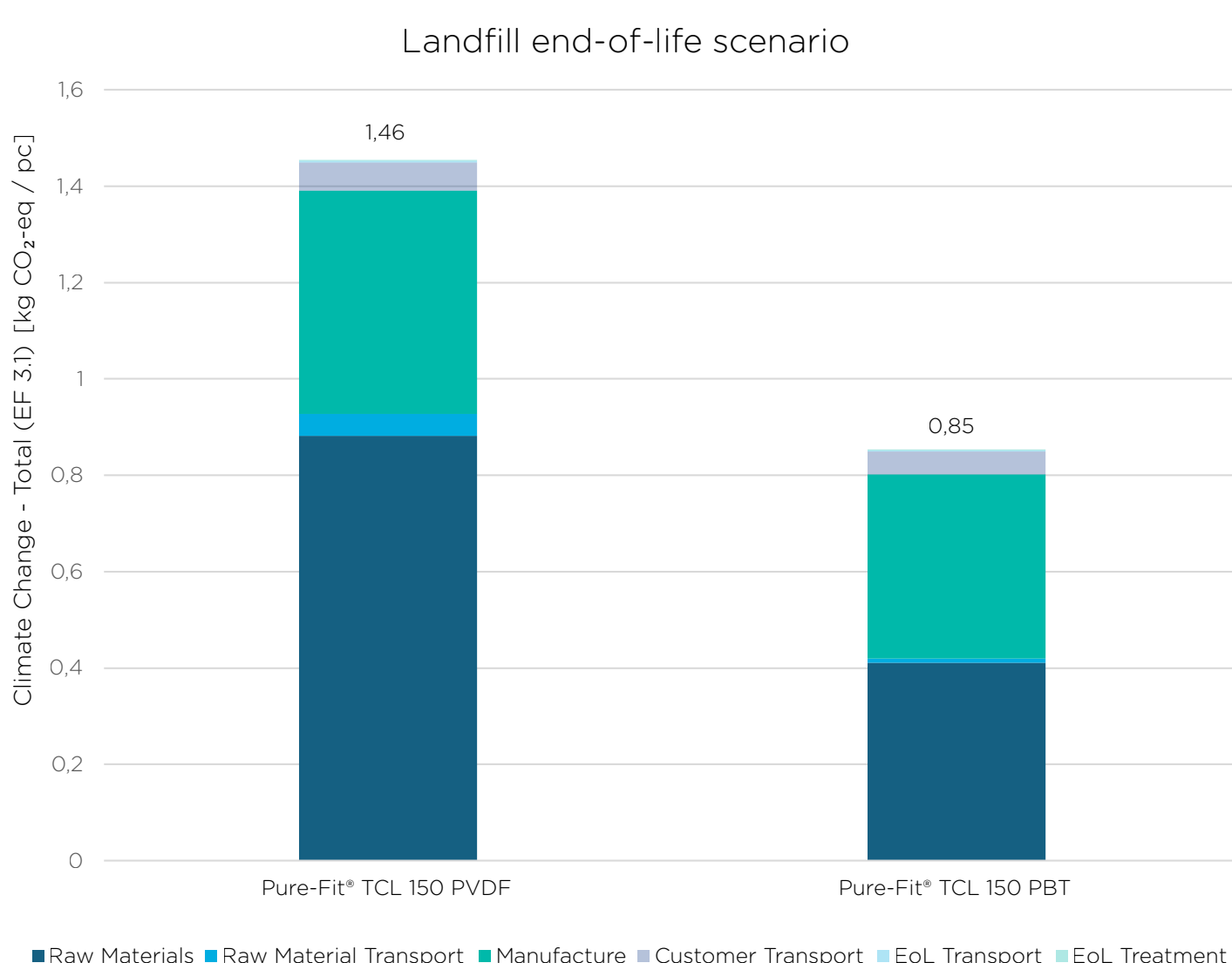


-39%*

Carbon footprint

*Conservative data

Comparison between all life cycle steps for PVDF and PBT (cradle to gate with end-of-life option*)



Source: Comparison of Pure-Fit® TCL Made with PVDF and PBT, Comparative LCA Report, R. Barrentine, 2025

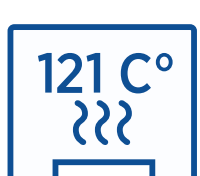
***Cradle to Gate** is an environmental assessment that evaluates a product's lifecycle from raw material extraction (cradle) through production and up until it leaves the factory (gate). It focuses on the environmental impacts associated with **resource use, manufacturing processes, and transportation.**

In our study, we are using a Cradle to Gate approach but also considering **end-of-life** scenarios. Specifically, we've examined two possible disposal options: **incineration and landfill**, to provide a more comprehensive understanding of the product's full environmental impact.

[Contact our experts](#)

For every 1,000 clamps ordered in PBT instead of PVDF, carbon emissions are reduced by an amount equivalent to flying from New York to Los Angeles.

Choose Pure-Fit® TCL in PBT!



Autoclavable and gamma sterilizable



Sustainability



Performance



Compliance

Saint-Gobain Life Sciences is committed to **transparency**, using **LCA** to evaluate the environmental impact of its products. With a goal to cover **100% of its portfolio with LCA by 2030**, the company drives sustainability and continuous environmental improvement. **LCA** helps identify impact contributors, supports **decarbonization**, and guides Saint-Gobain Life Sciences in prioritizing innovations that **reduce environmental impact.**