



Third-Party Life Cycle Analysis Epsilyte Products with Recycled Content

A More Sustainable Choice

Verified through industry-standard methodologies and third-party experts, Epsilyte's 50% post consumer recycled (PCR) grades offer a more sustainable alternative to traditional reactor-grade resins. By incorporating 50% PCR material, these grades significantly reduce environmental impact while maintaining high performance.

**36% Lower
Environmental
Impact Than
Standard EPS**



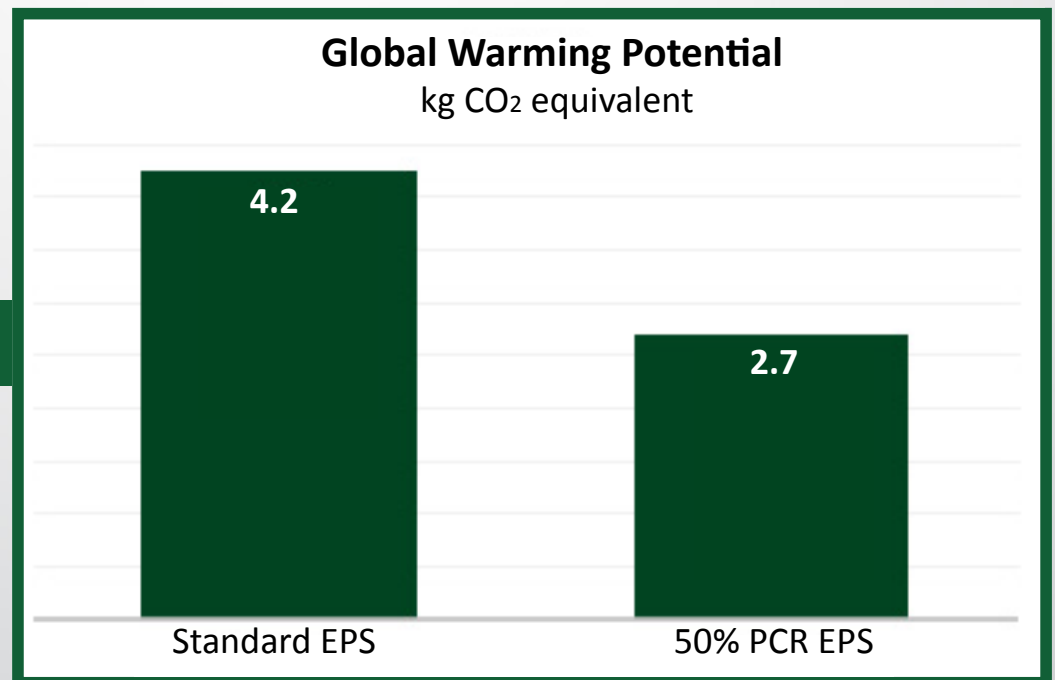
Global Warming Potential (GWP)

GWP measures the contribution of greenhouse gases (e.g., CO₂, CH₄, N₂O) to climate change over a 100-year time horizon.

Epsilyte's 50% PCR EPS demonstrates a significant environmental advantage by reducing reliance on virgin raw materials and minimizing carbon emissions.

Our material has a **36% lower GWP** compared to the average of the other grades.

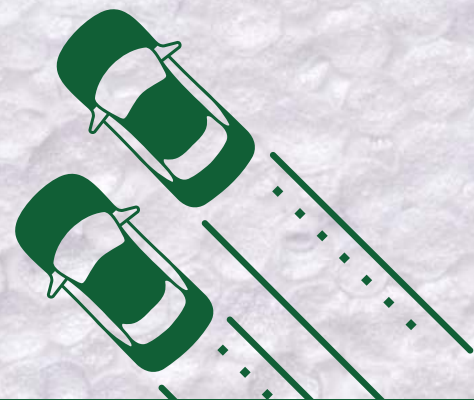
A higher GWP means more warming impact.



Functional Unit: 1 kg of resin

Did You Know?

Just by swapping 1 TL (44,080 lbs) of standard EPS for Epsilyte's 50% PCR EPS reduces the Global Warming Potential equivalent to removing 2,434 cars per day worth of CO₂ emissions.



What is a Life Cycle Analysis (LCA)?

A LCA is a method of systematically assessing the environmental burdens associated with a product, process, or activity. The international standard for a LCA, ISO 14040, states that:

**LCA addresses the environmental aspects and potential environmental impacts (e.g. use of resources and the acquisition through production, use, and end-of-life treatment, recycling and final disposal.)*



Epsilyte LCA

LCA Scope:

- Cradle-to-Gate Assessment
- Evaluated our standard resin grades and our 50% PCR grade

Purpose of LCA:

- Understand environmental impacts associated with the life cycle of the variations of EPS resins, using cradle-to-gate LCA methods
- Support sustainable decision-making by identifying opportunities to reduce environmental impacts

Underlining Standard:

- ISO 14040:2006 and
- ISO 14044:2006+A1+A2:2020

Epsilyte Products Available with 50% PCR Include Our Packaging/Shipper Grades and Helmet Grade



Epsilyte can work with you on your product specific LCA.
Contact us today.

