



Helping Lucite understand the environmental impacts of plastics



Plastics producer Lucite wanted to understand its environmental impacts, triggered by a request from a plastics industry association for data on two types of plastics Lucite makes. A life cycle assessment with SimaPro gave them this insight and helped to suggest improvements.

The challenge: Compiling inventory data for use by the sector

Plastics Europe is an industry association that promotes the use of plastics in different sectors and provides average industry data for its members to use in product assessments. While updating the environmental profiles of MMA and PMMA, two types of plastic, Plastics Europe asked Lucite to provide the inventory data. Lucite contacted PRé Sustainability to compile the life cycle inventory data for these plastics and to create the environmental profiles. SimaPro was used for both projects.

The SimaPro solution

PRé modelled the product life cycle for MMA and PMMA in SimaPro to create a transparent dataset that accurately reflected the complexity of the product life cycle and met the strict data requirements in the ISO 14040/44 standards. The data and data sources were evaluated and verified, based on specific criteria, and reported separately. Without transparency about how the product life cycle was modelled,

consolidating Lucite's dataset with that of other companies, as Plastics Europe wanted, would have been impossible.

Other benefits of using SimaPro are that the model can be easily exported in different formats and shared with interested parties. For Lucite, the advantage of having a model created with parameters is that the model can be linked to data files for automated updates. The add-on software Report Maker also allowed for automated updates of the monitoring report.

Business values

- Lucite gained insight into all environmental impacts, highlighting raw material sourcing as a hotspot.
- The parameterised model in SimaPro is easily updated and can be used for monitoring and reporting.
- Relevant ISO-compliant study results can be used for B2B and B2C communication.

Empowering LCA practitioners to deliver sustainable value



SimaPro – empowering LCA experts to deliver sustainable value

SimaPro was developed to help you effectively apply your LCA expertise to empower solid decision-making, change your products' life cycles for the better, and improve your company's positive impact. SimaPro is the world's leading LCA software, with a 25-year reputation in industry and academia in more than 80 countries.

Find out more about how SimaPro can help you deliver sustainability value at: simapro.com



Meet the developer – about PRé

SimaPro was developed by PRé with the goal of making sustainability a fact-based endeavour. All of our efforts are focused on helping you create value from sustainability. PRé has been a leading voice in sustainability metrics and life cycle thinking development for the past 25 years, pioneering the field of environmental and social impact assessment. That is how we help LCA and sustainability practitioners deliver sustainable value.

Contact your local partner through the SimaPro Global Partner Network

SimaPro sustainability software is distributed through a Global Partner Network. All partners were carefully selected by PRé.

A partner in your country will act as your local SimaPro sales and support representative.

Find a local partner: pre-sustainability.com/global-partner-network

Need help finding your local partner?

Contact PRé and we will help you find the right partner:

Discover more about how we help LCA experts deliver sustainable value:

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