



# Consulting on the Application of Recycled Plastics

**TECHNICAL EVALUATION FOR THE USE OF RECYCLED PLASTIC PRODUCTS IN ARCHITECTURE AND DESIGN**

## KEY WORDS

RECYCLED PLASTIC,  
TECHNICAL CONSULTING,  
SUSTAINABLE ARCHITECTURE

## CONTACT US

[lemaa@usach.cl](mailto:lemaa@usach.cl)

[Universidad de Santiago de Chile](http://www.usach.cl)

## DESCRIPTION

The Laboratory for Exploration in Environmental Architectural Materials (LEMAA) offers specialized consulting services on the potential use of products made from recycled plastic, focused on applications in architecture, construction, and product design. Based on an analysis of material properties, conditions of use, functional requirements, and environmental criteria, technical guidance is provided to evaluate the feasibility, performance, limitations, and opportunities for improvement of solutions developed with recycled plastics, supporting design, specification, and product development decisions with a focus on sustainability and the circular economy.

## TECHNIQUES AND/OR EQUIPMENT AVAILABLE

- Evaluation of mechanical, thermal, and functional properties of recycled materials
- Analysis of conditions of use in architectural and construction contexts
- Review of architectural product and component design
- Support in selecting recycled materials based on performance and application
- Comparative analysis between recycled materials and conventional solutions

## APPLICATIONS

- Definition of viable architectural applications for recycled plastics
- Support for product design and construction system projects
- Technical evaluation of materials for coatings and functional elements
- Support for sustainable architecture and circular economy strategies
- Technical assistance in R&D, innovation, and technology transfer projects