



DISEÑAR /02

Design and Prototyping From Recycling

DEVELOPMENT OF SUSTAINABLE MATERIALS AND ARCHITECTURAL PROTOTYPES

KEY WORDS

RECYCLING,
PROTOTYPING,
SUSTAINABILITY

DESCRIPTION

USACH has capabilities to develop materials and prototypes through the mechanical recycling of plastics, covering both conceptual and practical stages. It is grounded in an interdisciplinary approach that integrates design, engineering, and sustainability, supported by specialized equipment for polymer processing. The goal is to create sustainable materials intended for architectural applications.

APPLICATIONS

Experimentation and validation of both prototypes and plastic mechanical recycling processes at a laboratory scale, aiming to assess their technical feasibility and potential scalability toward industrial production.

CONTACT US

lemaa@usach.cl

[Universidad de Santiago de Chile](#)