

Epoxy bio composites



AIMPLAS
INSTITUTO TECNOLÓGICO
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Description

Bio-based recyclable, reshapable and repairable (3R) epoxy resins and fibre-reinforced sustainable thermoset composites for automotive and construction sectors.

Objectives

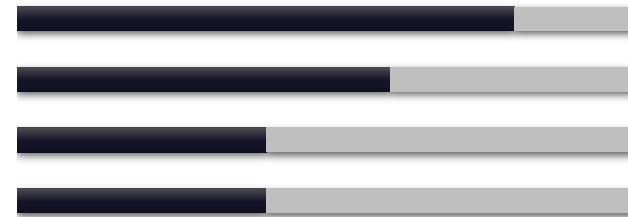
- To undertake environmental analysis in the pultrusion process and in the fabrication of composite parts for the construction sector to identify positive impacts compared to commercial counterparts,
- To measure operational costs of elements developed, to optimize processes and to decide if the proposal is economically feasible,
- To identify social and economic benefits of applying composite-based elements to constitute a strategy to increase consumers & end-users acceptance.

Activities

- Sustainability assessment:
 - Life-Cycle Assessment LCA,
 - Life-Cycle Costing LCC,
 - Social Life-Cycle Assessment SLCA.

Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Technology readiness level



Expected outcomes

- Usage of raw materials coming from renewable sources,
- Implementation of recycling and reuse of materials,
- Implementation of green chemistry principles.



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