Horizon2020 Information Days on Public-Private Partnerships

Brokerage event
21 October 2014

CONTROLLED CATALYTIC REACTION TO PREPARE THERMOSETTING PLASTICS VIA CONVENTIONAL PROCESSING OF THERMOPLASTICS.

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SPIRE
Sustainable Process Industry through Resource and Energy Efficiency

andaltec Plastic Technological Center

Organisation

- ✓ High technological **SME**
- ✓ National **Plastic Technological** Centre

October 2014

Human Resources

Highly **qualified** Staff

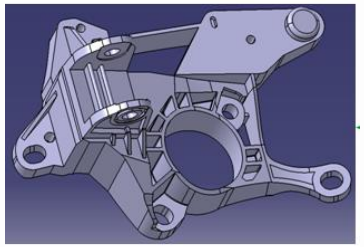
110 people, 85% University graduates and PhD

andaltec Plastic Technological Center

Expertise:

Development of plastic materials and their characterisation

Design and development of new products and prototypes



H2020-SPIRE-5-2015

New adaptable catalytic reactor methodologies for

Process Intensification

Project title

Controlled catalytic reaction to prepare thermosetting plastics via conventional processing of thermoplastics.

Catalytic reaction

Catalysts, polymers, curing

(Curing time/ shear...)

Process control/Design

Thermosetting plastic parts

"Reactors"

Conventional plastic processing:

- Extrusion
- Injection moulding

Non-conventional:

- 3D printing

Objectives:

To find methodologies to produce thermosetting plastics by the unification of catalytic curing of polymers and conventional processing of thermoplastic material.

Expected results:

To reduce:

- Number of steps
- Unit operations
- Environmental impact

To improve:

- Intensification
- Efficiency
- Flexibility

Partner sought:

- Research centers and universities:
  - catalysis
  - curing
  - chemistry of polymers…
- Manufacturers/Industry/Technological centers:
  - plastic processing machinery
  - moulds
  - end use (thermosetting parts)

THANKS FOR YOUR ATTENTION

andaltec Plastic Technological Center

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New adaptable catalytic reactor methodologies for Process Intensification

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