

EPPC

European Platform of Photo Composites

Main actors:



EPPC supported by:



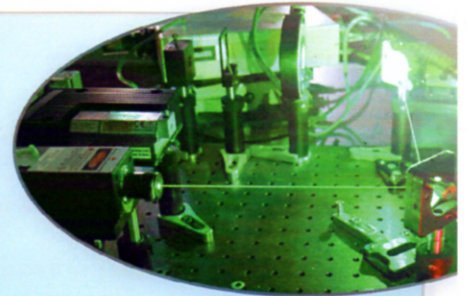
Who are we ?

The EPPC is a very recent Platform launched in 2017. Its purpose is to promote new photopolymerization technologies for applications in the field of composites.

It brings together the Laboratory of Macromolecular Photochemistry and Engineering (LPiM) and the Laboratory of Textile Physics and Mechanics (LPMT) with the aim of developing solutions to open space and R&D technics to industrial companies.

Innovations

- A research at the service of industrial innovations
(Tax assistance through the «crédit d'impôt recherche» for French companies)
- EPPC offers innovative solutions in the field of composites:
 - Photochemical
 - Photochemical/Thermal (Dual-cure process)
- Combination of automated and photochemical cross-linking processes using LED
- Synthesis of high performance additives
- Modifications and surface treatments of charges and fibers



Skills

- Services for physico-chemical analysis and characterization of the mechanical behavior of preregs and photocomposites (thermoplastic and thermoset)
- Technical and/or bibliographic preliminary studies
- Synthesis and/or preparation of photopolymerizable resins and prepolymers
- Study of adhesion and bonding properties of composites
- Characterization of tribological, wear and ageing properties



Available resources

- Knitting and 3D weaving
- Laboratory impregnator
- Automated tape laying
- Implementation of composites in press or under vacuum
- Belt conveyor with different irradiation sources (UV, LED and IR)
- ATR, FTIR, RAMAN, photorheometer, durometer, profilometer
- Machining of composites materials
- Mechanical testing machine
- Thermal analysis (DSC, ATG, DMA)
- Scanning electron microscopy (SEM)



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