



MODELLING

Lightweight Automotive

Brightlands Materials Center is a Materials Research Organisation based on the Chemelot Campus in Geleen, The Netherlands. The Lightweight Automotive Program focusses on Hybrid Thermoplastic Composites in overmoulding and recycling.

- The Lightweight Automotive Program at Brightlands Materials Center includes an expert team intensively working on the advanced numerical simulations in the fields of injection overmoulding and adhesion of thermoplastic composites.
- Our simulation studies serve the manufacturing process, material design stage and structural analysis of the fiber reinforced thermoplastic composite materials. This is achieved using the state-of-the-art developments in multiscale and multiphysics simulations.
- Currently, together with Technical University Twente and a group of industrial companies, Brightlands Materials Center is working on the development of an advanced finite element adhesion model to study the interface zone of the overmoulded fiber reinforced thermoplastic composites.

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Business Development

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