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CaraSave - Entwicklung eines crashsicheren Leichtbaufahrzeugaufbaus für Reisemobile

Teilvorhaben: Optimierung und Herstellung eines Crashmodules

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Saring, Matthias **Knechtel, Christoph**	6. publication date **22.09.2025**
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18. abstract

Specification of Lakowa GmbH for the cooperation project CaraSave is the production of a prototype component, which contributes to increased crash safety for recreational vehicles due to special material specifications. A material structure is to be developed that is tailored to the component geometry, the component application, and the manufacturing process. The decisive factors here are the mechanical and adhesive material properties. Subsequently, the material is to be reshaped through a thermoforming press process into a crash module. For this purpose, the thermoforming tools required must be designed and manufactured. The forming process is to be implemented using the new forming machine T10/2 from Lakowa GmbH, which, with its modern equipment, enables new variants of thermoforming pressing. The component is to be manufactured ready for assembly for Capron company. A crash test is to be conducted after the final assembly in the vehicle.

19. keywords
thermoforming ; crashmodul ; endless-fiber reinforced

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