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Title: REALIZATION OF PEDESTRIAN PROTECTION MEASURES ON CARS

Accession Number: 00376685

Record Type: Component

Availability: Society of Automotive Engineers
400 Commonwealth Drive
Warrendale, PA 15096 USA

Abstract: For the first time a working group of German universities developed an efficient, environmentally compatible and safe passenger car. The design of the UNI-CAR was specifically adjusted to the safety of persons outside the vehicle. Thus, for protecting pedestrians and drivers of two-wheeled vehicles, several of the bodywork components were primarily developed on the basis of polyurethane integral skin foam to cushion the impact of a person upon the car from outside. For instance, the car was given a reversibly deformable front end and a cushioned bonnet as well as cushioned window frames and roof edges, without impairing the design or aerodynamics of the vehicle. The report explains the aspects of materials selection and vehicle design, the problems and experiences associated with the manufacture and application of these plastics components, as well as test results.

Supplemental Notes: Pedestrian Impact Injury & Assessment P-121. International Congress and Exposition, Detroit, Michigan, February 28-March 4, 1983.

Report Numbers: SAE 830051
HS-034 538

Corporate Authors: Society of Automotive Engineers
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