

Scoring of invisible tear lines in airbag covers

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In the presented procedure for laser scoring, a laser creates a series of blind holes on the reverse of the material. This means that a weakening line is created along the contour of the airbag flap. Vehicle passengers will not notice the integrated breaking point. However, if a situation arises when the airbag needs to trigger, then the material rips open at the weakened point.

A process is presented in which a defined residual wall thickness is generated in plastic components using powerful CO₂ lasers and a fast control loop using CO₂ power detectors.

[1] S. Dienert JENOPTIK VOTAN A product line presentation

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