

Abstract

A method for providing a displacement map (6), which is more preferably used for qualitative evaluation of a performed bonding process, comprising,

- 5 - providing a first substrate (1) and a second substrate (2),
- measuring the first substrate (1) to determine at least a first geometrical parameter, in particular a macroscopic and/or microscopic first geometrical parameter, and the second substrate (2) to determine at least a second geometrical parameter, in particular a macroscopic and/or microscopic second geometrical parameter,
- 10 rical parameter,
- bonding the first substrate (1) to the second substrate (2) to form a composite substrate (4),
- measuring the bonded composite substrate (4) to determine at least one measured third geometrical parameter, and
- 15 - providing at least one simulated third geometrical parameter for the bonded composite substrate (4) based on a composite model, wherein the simulated third geometrical parameter is simulated in dependence of the at least one first geometrical parameter, the at least one second geometrical parameter and a preliminary displacement map (6') by means of an analysis and/or simulation device (8) wherein the preliminary displacement map (6') is generated
- 20 by means of the analysis and/or simulation device (8) and can be used in the composite model to compensate for deviations between the simulated third geometrical parameter and the measured third geometrical parameter.

25 [Fig. 1]

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