Title: Photovoltaic resin board debonding
Generated on: 2026-04-13 07:19:00

In this paper, a new method using nanosecond laser pulses is demonstrated to induce transient melting selectively at the EVA-Si interface. This impulsive heating method can cleanly ...

Chemical and mechanical interfacial degradation in bifacial glass/glass and glass/transparent backsheet photovoltaic modules Journal Article · Wed Jun 29 00:00:00 EDT 2022 · ...

Debonding occurs when the layers of a solar cell, particularly between the photovoltaic layer and the backing material, begin to separate. This phenomenon can lead to a reduction in ...

To elucidate the mechanisms of environmental debonding, we developed a fracture-kinetics model, where the molecular relaxation processes at the debond front are used to predict debond growth.

The boundary conditions for debonding processes must be practical and comply with occupational safety and environmental regulations. Ideally, after debonding the adhesive should not adhere to the parts ...

"The primary objective of PVDEBOND is to address photovoltaics recycling by designing PV modules specifically for end-of-life separation. This is achieved through debonding-on-demand technology that ...

EVG"s most recent innovations in debonding technologies are UV and IR laser debonding, with a wide process window and LowTemp debonding for smooth process integration, enabling the production of ...

To demonstrate laser-based debonding on a commercially available end-of-life photovoltaic (PV) solar panel, a full-sized (1.7 x 1 m 2) module (Poly-Si, 260 W, WSP-260P6, ...

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