How to use the debonding agent for photovoltaic panels

To achieve this objective, a chemical route was chosen; in fact, solvent extraction is highly recommended, as it has a high separation efficiency. In this study, D-limonene as a bio-solvent was...

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 ...

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, ...

From developing irradiation trigger techniques to creating durable additives and scalable debonding tools, PVDEBOND combines advanced R& D with real-world applications to make sustainable PV ...

I successfully demonstrated this laser-based debonding application on both model solar modules and commercial solar panels to separate the front glass from the semiconductor (Silicon) wafer-...

The delamination of encapsulants in photovoltaic (PV) modules is a common issue that leads to power loss due to optical losses. Encapsulant debonding is usually examined under ...

This manual will aid in developing a basic quality assurance program around the use of sealants in solar PV applications that require durability and reliability. Since PV frames and modules vary in design ...

In this work, we subject fully cured EVA, POE, and EPE encapsulants to accelerated thermal aging to determine how high temperatures impact reaction kinetics.

The Chinese Academy of Science has developed a new technique that uses non-toxic lemonene as a reagent to control the degree of EVA expansion during the decapsulation process of ...

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In this study, we presented a green solvent-based approach using limonene with ultrasound assistance for the efficient delamination of EVA from c-Si PV modules.

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