

Introduction to Mobike Photovoltaic Epoxy Board

What is a glass-free photovoltaic (PV) module?

This work focuses on the development of a lightweight, glass-free photovoltaic (PV) module (6 kg/m 2) composed of a composite sandwich back-structure and a polymeric front layer. Sandwich structures are usually manufactured with a vacuum bag process and thermosetting liquid glues (e.g. epoxy resin).

What is PVB encapsulation?

PVB is a thermoplastic polymerwhich has been used since the early 80s as a PV module encapsulant. It represents the second most processed encapsulation material, with similar material costs to EVA.

How can a lightweight PV module be made?

In a previous work, it was demonstrated the possibility to produce a lightweight PV module with a weight of 5 kg/m 2, by substituting the typical front glass with a thin polymer sheet and the standard backsheet by a composite sandwich structure.

Which material is used to encapsulate PV modules?

Ethylene vinyl acetateEVA, a copolymer of ethylene and vinyl acetate is the predominating material of choice for manufacturing the encapsulate film since the early eighties, and nearly 80% of PV modules are encapsulated with EVA film [4,13,29].

Can cellulose microfibers encapsulate a PV module?

In a study,Surlyn(a copolymer of ethylene &methacrylic acid) has been reinforced by cellulose microfibers, and the composite material was used as encapsulate for the PV module .

What are the applications of PVB in the photovoltaic industry?

The main applications of PVB in the photovoltaic industry are building-integrated photovoltaics (BIPV) and thin-film technology with a glass-glass configuration. Silicones are mixed inorganic-organic polymers which include the elements silicon, carbon, hydrogen and oxygen as the main constituents.



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