

# Photovoltaic plastic board extrusion and drawing

Are co-extruded backsheets based on pp suitable for PV modules?

Summarized,co-extruded backsheets based on PP show great potentialto be a valid replacement of standard PET based backsheets in PV modules. On the one hand,the PP backsheet so far proved excellent stability,exhibiting no severe material degradation after extended exposure to temperature,humidity and irradiation.

Can pp encapsulants replace pet based backsheets in PV modules?

Therefore,in contrast to test modules using Ethylene Vinyl Acetate (EVA) encapsulants and PET backsheets,no silver grid corrosion was observed for modules using PP backsheets. Co-extruded backsheets based on PP show great potential to be a valid replacementof standard PET based backsheets in PV modules.

What are the application fields of photovoltaic (PV) modules?

The application fields of photovoltaic (PV) modules have gradually expanded from single ground power stations and rooftop distributed power stations to transportation,automobiles and boats[,,].

Which polymer can replace Photovoltaic Glass as front cover?

Gorter et al. studied and compared 15 polymer materials such as Polyvinylidene fluoride (PVDF),Ethyl-Tetrafluorethylene (ETFE),Polytetrafluorethylene (PTFE),etc.,to replace photovoltaic glass materials as front cover. Fluorides offer excellent UV-resistance but are up to 20 times more expensive per kilogram compared to glass [,,].

What is a PV module encapsulation?

In most cases, this composite is surrounded by a metal frame, providing the necessary structural support and usually used for facilitating module mounting. When examining standard PV modules, one component known to be prone to aging, and hence likely to impair the long-term characteristics of the module, is the encapsulation material.

What is a polymer based photovoltaic element?

The development of organic,polymer-based photovoltaic elements has introduced the possibility of obtaining cheap and easy-to-produce energy from light. Photoinduced electron transfer from donor-type semiconducting polymers onto acceptor-type polymers or molecules,such as C 60,is the basic phenomenon utilized in these photovoltaic devices.

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