



## Advanced Polymer Pv System: Pvmat 4a1

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This document reports on work performed by Evergreen Solar, Inc. under this Photovoltaic Manufacturing Technology (PVMaT) subcontract. The purpose of this subcontract was to produce lower module and systems costs through the innovative use of polymeric materials. The impetus behind this approach was the burgeoning use of polymers in such major industries as packaging and automobiles. The market demand in these industries has resulted in whole new areas of high-performance, but low-cost, plastics. These developments created fresh opportunities for photovoltaics. Using this approach, a new backskin material instead of Tedlar (Tedlar is a Dupont trademark) or Tedlar laminate was developed and tested. This new backskin material allowed us to make a frameless module and novel mounting methods. The latter is referred to as an Innovative Mounting System (IMS). This IMS system, in conjunction with the frameless module, substantially reduces the cost of installed PV systems by reducing labor and materials costs, both in the factory and in field installation. The IMS incorporates several advances in polymers, processing methods, and product design. The advanced backskin material permits elimination of...



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