

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 [.,].

Are polycarbonate/poly methyl methacrylate (PMMA) multilayer films suitable for UV refraction?

In the present study, polycarbonate (PC)/poly methyl methacrylate (PMMA) multilayer films with a certain bandwidth and selective reflection in the UV band were successfully prepared. The multilayer film structure was simulated by TFCalc(TM) software.

What are the advantages of photo-responsive polymers in the encapsulation of PV devices?

Advantage of photo-responsive polymers in the encapsulation of PV devices. Photovoltaic (PV) technology has evolved as the major renewable power resource in the worldwide green energy sector to meet the future challenge of energy needs.

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