

Is molecular fluorine a viable supply for a PV production line?

Because of the large amount of cleaning gas to be considered for a PV production line, the only viable supply of molecular fluorine for production purposes is on-site generation.

Could fluoropolymers be recycled from end-of-life PV panels?

Furthermore, we proposed a potential fluoropolymer recycling scheme from end-of-life PV backsheets. Plastic recycling from PV panels has rarely been reported, but our scheme could enhance the recycling of fluoropolymers.

Can a photovoltaic backsheet be chemically recycled for fluoropolymer recycling?

In this study, we investigated the feasibility of chemically recycling a fluorine-containing photovoltaic (PV) backsheet for fluoropolymer recycling.

Can PV backsheets be used for fluorine recovery?

However, these countries currently depend on imports from other countries for fluorine procurement. Therefore, promoting fluorine recovery from waste will reduce the risk of fluorine supply and enhance the sustainability of domestic industries. PV backsheets are attractive candidates for fluorine recovery.

Do fluorine-free backsheets improve environmental performance?

The life cycle assessment for the fluorine-free backsheets show better environmental performance compared to the fluorinated backsheets in both incineration as well as the pyrolysis EOL scenarios.

Are fluorine-free backsheets better than fluorinated pyrolysis?

Likewise, in the pyrolysis scenario, fluorine-free backsheets show better environmental performance than fluorinated backsheets in 8 out of 12 impact categories. Pyrolysis could be a potential end-of-life treatment option for fluorine-free backsheets.



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