

# PVDF film for solar modules



## Overview

---

PVDF films are widely used as backsheet materials due to their superior resistance to UV radiation, moisture, and extreme temperatures, which directly impacts the longevity of solar panels. The demand for PVDF (polyvinylidene fluoride) film in the solar photovoltaic (PV) market is driven by its critical role in enhancing module durability and performance. A primary driver is the growing global emphasis on renewable energy adoption, with solar installations projected to exceed 350 GW . Since 2011, DuPont has conducted inspections of fielded solar modules in different geographies and climates in North America, Europe, Asia Pacific, and the Middle East. To date, DuPont has surveyed over 4. 2 million panels from 275 solar fields and 79 module manufacturers, accounting for over 1. High Light Transmittance: Over 91% transmittance for enhanced power generation gains. Excellent UV Blocking: Blocks over . Kynar® PVDF film solutions for high durability solar module backsheet laminates.

## PVDF film for solar modules

---



### What is PVDF Film For PV Backsheet? Uses, How It Works & Top

In the context of PV backsheets, PVDF film acts as a protective layer that shields solar panels from environmental damage while maintaining transparency and flexibility.

### Photovoltaic , Arkema High Performance Polymers

Kynar(R) PVDF film solutions for high durability solar module backsheet laminates. Kynar(R) PGM TR 3-layer film is made of two outer surface layers of pure Kynar(R) PVDF sandwiching an inner layer of



### PVDF Resin For Solar Backsheet Film

PVDF backsheet film works as the important packaging material for solar cell modules. As the picture shown, the outermost layer is fluoropolymer resin film with excellent weather resistance, good

### When Proven Performance Matters , Tedlar(R) PVF film-based

DuPont(TM) Tedlar(R) is a highly versatile, polyvinyl fluoride film that provides a long-lasting finish to a wide variety of surfaces exposed to harsh environments while its inert, non-stick properties make it an





### **PVDF Film for Solar PV Market**

PVDF films are widely used as backsheet materials due to their superior resistance to UV radiation, moisture, and extreme temperatures, which directly impacts the longevity of solar panels.



### **Emerging PVDF Applications in Solar Backsheet Films**

As solar energy systems grow in both scale and complexity, a greater emphasis is being placed on materials used in photovoltaic (PV) modules. A key material that is growing in importance is



### **PVDF Film**

PVDF Film with over 40% fluorine content, maintains perfect condition without chalking or cracking after 800 kWh/m<sup>2</sup> UV exposure.



### **PVDF Fluoropolymer Extruded Films**

Due to their excellent dielectric performance, fire resistance, and high solar transmittance, PVDF films are very well suited for use in the back sheet and front sheet glazing of PV panels.



### **The Critical Role of PVDF in Solar Panel Backsheets**

Discover why PVDF (Polyvinylidene Fluoride) is a crucial material in solar panel backsheets, enhancing durability, weather resistance & overall module performance.

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.bartstudio.biz>