

Fenix Fluorine-Free Backsheet

Fluorine-Free Eco-Friendly Series | Product code: HD-CPC-NW

230°C without yellowing and 1000 kWh/m² UV without cracking — with no fluoropolymer in the construction.

Fluoropolymer backsheets are under pressure from two directions: end-of-life regulation that treats fluorine as a recycling problem, and corporate procurement policies that are removing it from bills of materials ahead of the regulation. The standard objection to fluorine-free alternatives is that they yellow and crack.



Key characteristics

Excellent heat resistance	Withstands temperatures up to 230°C without yellowing and maintains long-term stability at 200°C.
Superior weather resistance	Resists cracking and yellowing under extreme UV exposure (1000 kWh/m ²) and combined UV damp-heat conditions (200 kWh/m ²).
No fluorine in the formula	Aligning with sustainable and environmental goals, and with recyclable module design.
303 µm ±10% construction	10 µm silicone / acrylic / polyester mixed air coating, 288 µm PET middle layer, 5 µm high-reflectivity inner coating.

Specification

Product Structure	Air Coating	Air Coating:10µm, Silicone Coating/Acrylic, and Polyester Mixed Coating, Protect PET
	Middle Layer (PET)	Middle Layer: 288µm, Insulation Property, Water Vapor Barrier Property
	Inner Coating	Inner Coating: 5µm, High Reflectivity, Great Bonding Performance with EVA
Product Type	HD-CPC	
Product Code	HD-CPC-NW	
Product Name	Insulating back sheet for crystalline silicon terrestrial photovoltaic (PV) modules	
Thickness	Air Coating: 10±2µm Middle Layer: 288µm±5% Inner Coating: 5(-0, +2)µm Total Thickness: 303µm±10%	
Color	White	

Applications

- Eco-conscious and fluorine-free procurement
- Recyclable module designs
- Distributed and portable systems

Storage and shelf life

High storage stability with no special storage requirements. Warranty period is one year under cool, dry storage conditions; laminating process generality should be evaluated after that period.

Enquiries

Quotations, full datasheets and certificates are issued against a product code and a destination market. Write to info@hondosolar.com with the cell technology, the module construction, the annual volume and the destination market.

All values are as published by the manufacturer. Tolerances, roll formats and electrical data are confirmed in writing per order. Suzhou Hondol New Material Co., Ltd. No.518, Xinzhen Road, Tong'an Town, SND, Suzhou, Jiangsu, China. PT. Hondol Material Indonesia, Samara Industrial Park, Batam, Kepulauan Riau, Indonesia.