

PF

Weather-Resistant Layer | Product code: HD-PF-K

40.5 μm total, over 88% transmittance in the 400–1100 nm band, and over 1000 kWh/m² UV endurance.

In a folding or vehicle-mounted module every micron of front film is weight and stiffness you did not want. The usual way to save it is to thin the film, and the usual price is weatherability.



Key characteristics

Over 88% transmittance across 400–1100 nm	Measured across the band crystalline silicon actually responds to, rather than a single headline figure.
Over 99% UV rejection in the same band	The encapsulant behind it never sees the radiation that would yellow it.
Superior weatherability	Withstands over 1000 kWh/m ² UV exposure and over 120 kWh/m ² damp-heat UV testing.
40.5 μm $\pm$10% total thickness	A 22.5 μm weather-resistant air layer, 6 μm glue layer and 12 μm inner layer carrying insulation, water vapour barrier and EVA bonding.

Specification

Product Structure	Air Coating	Air Layer:22.5 μm , Weather-Resistance, UV Cut-Off
	Glue	/
	Inner Layer	Inner Layer: 12 μm , Insulation Property, Water Vapor Barrier Property, Great Bonding Performance with EVA
Product Type	HD-PF	HD-CPC
Product Code	HD-PF-K	
Product Name	Insulating back sheet for crystalline silicon terrestrial photovoltaic (PV) modules	Flexible front sheet for light-weight crystalline silicon photovoltaic(PV) modules
Thickness	Air Layer: 22.5 $\pm$ 5 μm Glue Layer: 6 $\pm$ 2 μm Inner Layer: 12 μm $\pm$ 10% Total Thickness: 40.5 μm $\pm$ 10%	
Color	Transparent	

Applications

- Foldable and portable lightweight modules
- Residential balcony lightweight modules
- Automotive-integrated lightweight modules
- Commercial and industrial distributed lightweight modules
- BIPV
- Pneumatic structures
- Carports and gas stations

- Portable PV

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@hondolsolar.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.