

PRG/AGR

Structural Protection Layer | Product code: HD-PGR / HD-AGR

Withstands a 25 mm ball at 16 m/s with $\leq 5\%$ power degradation, and over 1000 kWh/m² UV resistance.

Hail is what kills glassless modules, and it does not kill them by breaking the surface. The impact travels through to the cells and leaves micro-cracks that show up months later as a yield shortfall nobody can trace.



Key characteristics

High impact resistance	Withstands impact from a 25 mm diameter ball at 16 m/s without significant visual defects and with $\leq 5\%$ power degradation.
Weather resistance above 1000 kWh/m² UV	With damp-heat UV above 120 kWh/m ² — double the UV figure of the CPC/CDPC structural sheet.
Organic material replaces glass	Lightweight construction without the structural penalty of removing the glass.
Over 90% light transmittance	An impact layer that sits in the optical path has to be effectively invisible, and this one is.

Specification

Product Structure	Prepreg Layer: 110μm, Impact Resistance and Adhesion	
Product Type	Insulating back sheet for crystalline silicon terrestrial photovoltaic (PV) modules	HD-HGR
Product Code	HD-HGR	
Product Name	Transparent	
Thickness	Prepreg: 100μm~ 160μm	
Color	Transparent	

Applications

- Anti-cracking layer in C&I lightweight modules
- Automotive-integrated modules
- Carport and gas station canopies
- Balcony modules

Storage and shelf life

High storage stability; warranty period is three months under cool, dry storage. Storage below 40°C and under 35% humidity is recommended, and 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.