

HD-SG

Structural Protection Layer | Product code: HD-SG-F / HD-SG-S / HD-SG-N / HD-SG-T

Reflectivity above 80% and water transmission below 0.5 g/m²-day, in constructions from 540 μm to 1000 μm.

A conventional CPC backsheet reflects above 70% and passes under 2.0 g/m²-day of water vapour. In a glassless module those numbers are not good enough — there is no rear glass adding stiffness and no glass sealing out moisture, so the backsheet has to do both jobs.



Key characteristics

Reflectivity above 80%	Against above 70% for conventional CPC backsheets — light that would have been absorbed goes back into the cells instead.
Water transmission below 0.5 g/m²-day	Against below 2.0 g/m ² -day for conventional CPC backsheets.
Light yet rigid	Prevents the component deformation that causes battery micro-cracks, which is the failure mode that glassless construction introduces.
Four grades from 540 μm to 1000 μm	HD-SG-F at 540 μm, HD-SG-S at 740 μm, HD-SG-N at 890 μm and HD-SG-T at 1000 μm, in white or black.

Specification

Product Code	HD-SG-F	HD-SG-N	HD-SG-S HD-SG-BS	HD-SG-T	
Product Structure	Air Coating	20μm, Weather -Resistance	20μm, Weather -Resistance	20μm, Weather -Resistance	25μm, Weather -Resistance
	Middle Layer	500μm, Insulation Property, Water Vapor Barrier Property	850μm, Insulation Property, Water Vapor Barrier Property	700μm, Insulation Property, Water Vapor Barrier Property	950μm, Insulation Property, Water Vapor Barrier Property
	Inner Coating	20μm, High Reflectivity, Great Bonding Performance with EVA	20μm, High Reflectivity, Great Bonding Performance with EVA	20μm, Reflection, Bonding with EVA	25μm, High Reflectivity, Great Bonding Performance with EVA
Thickness		Air Coating: 20±5μm Middle Layer: 500μm±10% Inner Coating: 20±5μm Total Thickness: 540μm±10%	Air Coating: 20±5μm Middle Layer : 850μm±10% Inner Coating: 20±5μm Total Thickness: 890μm±10%	Air Coating: 20±5μm Middle Layer : 700μm±10% Inner Coating: 20±5μm Total Thickness: 740μm±10%	Air Coating: 25±5μm Middle Layer : 950μm±10% Inner Coating: 25±5μm Total Thickness: 1000μm±10%
Color		White / Black			

Applications

- C&I distributed lightweight modules
- Automotive-integrated modules
- Balcony modules
- Carport canopies

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.