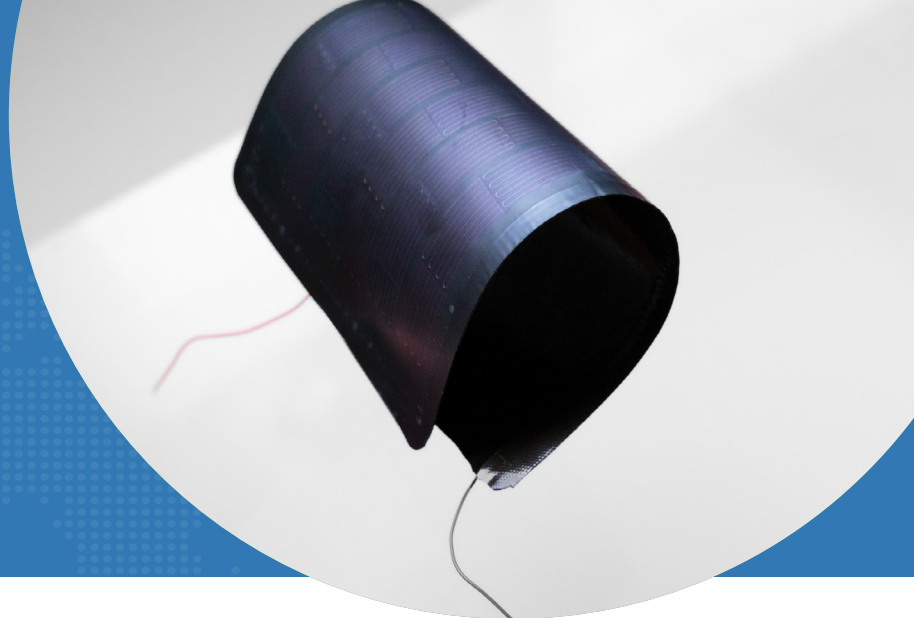


Introducing: Enfoil

Enfoil foil is a super sturdy flexible photovoltaic module made in custom sizes.
Photovoltaic technology is **CiGS**.
It is produced in Belgium.



Specifications

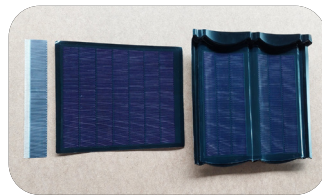
- Size: from 100mm X 100mm to 4500mm X 800mm
- Thickness: around 2mm
- Weight: Around 2kg/m²
- Power: up to 120Wp/m²
- Flexible radius from 10cm
- Electrical connections: top side or bottom side, position on demand
- Compatible with integration with other production processes through injection molding, lamination, thermoforming
- Can be delivered with various double sided tapes for application on metal, EPDM,...
- Can be matt or glossy
- Colors available from 2025
- ROHS, REACH, CE, no PFAS
- Low environmental impact
- No Glass, very impact resistant

Other applications

Amongst many others...



Swimming pool cover



Roof tile



Delivery pods

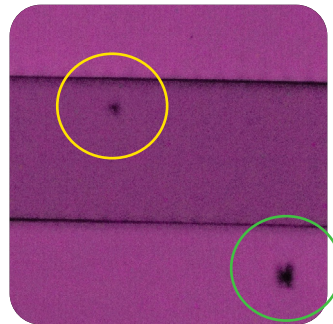


Sports dome

Impact test: Ball drop test 0.23 kg metal ball

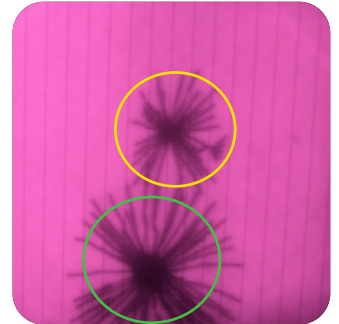
Enfoil

Foil marginally affected



C-Si

Largely destroyed



● Ball dropped from 30cm

● Ball dropped from 120 cm

Pricing

- 2 to 5€/Wp depending on size and quantities.
- Sample quantities (below 50m²), 5€/Wp + 2000€ startup costs.

Contact

Info@enfoil.com
<https://www.enfoil.com/>

Case study using Enfoil solar foil in the transportation industry

Example use case

Application in between rims of containers for autonomous smart containers for high valued products. Test made to have a battery of 100Ah keeping charge during the whole year on smart containers for pharmaceutical and other high valued applications. Test results analysed from 02/2023 to 02/2024.. This on 5 smart containers travelling through Europe.



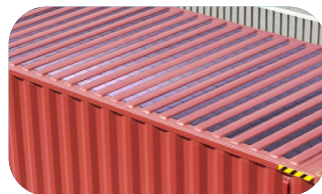
Solution

- Size: 1600mm X 140mm
- Power: 24Wp
- Amount of foils per container: 10 to 15
- Glued with double sided tape on the metal container
- Small holes made for the cabling
- Microinverter type Victron BlueSolar MPPT 75/10 every 1 container.

Results

- 0 defects on the foils
- If 12 foils are used, there was enough charge to operate during the full year
- Held charge well even during winter in western europe.

“The ultimate flexible PV solution for the most challenging applications”



Example connection diagram if 10 PV strips per container

Assume 1.5m long strips (not to cover the corners) – 142mm total width incl. edge seal in the 145.5mm space

Configuration:
Cell width 104mm
(16 bends)
all cells in series



1550mm long
32 cells in series
17.2V – 1.4A
24 Wp

