

COVEME PHOTOVOLTAIC

BACKSHEET SOLUTIONS FOR PV MODULES



COVEME PHOTOVOLTAIC DIVISION

Coveme develops and manufactures multilayer polymer laminates for solar panels which **provide electrical insulation and protect solar cells** from humidity and other atmospheric agents. This guarantees the duration and correct functioning of the solar module for up to 30 years.

With an internal production capacity of 20GW and a 25 year long experience in supplying the photovoltaic industry, Coveme is today the most long standing supplier of backsheets and frontsheets for pv modules in the market, and the only one with two production plants and three R&D hubs in Europe and Asia.

The company's **dyMat® laminates** range offers solutions for **all types of pv modules in any installation environment**. dyMat® photovoltaic laminates feature a wide choice of **PFAS free products**, mono and multilayer structures and several output enhancing options.

The use of recyclable materials as well as the offer of **recycled polyester film (rPET)** as base material are the result of specific research projects in collaboration with suppliers and scientific institutes and complete the range from a sustainable point of view. Coveme also offers a wide range of backsheets with fluorinated materials if required.

Today over **65 GW of solar panels installed** worldwide are **protected by dyMat**[®] pv backsheets and frontsheets confirming the guaranteed and certified product performance of Coveme's photovoltaic materials. **dyMat**[®] products are **TÜV RHEINLAND**, **TÜV SÜD certified and UL registered**.

- BACKSHEET AND FRONTSHEET SOLUTIONS for any module type
- BONDED WAREHOUSES in Europe, China, Turkey and Usa
- PFAS FREE and LOW CARBON FOOTPRINT products

- 20 GW current internal PRODUCTION CAPACITY
- 25 YEARS OF EXPERIENCE in supplying the PV industry
- 65 GW OF SOLAR PANELS INSTALLED worldwide protected by dyMat[®]

SUSTAINABILITY

Coveme is well aware of its responsibility in terms of environment and social wellbeing. This is reflected not only in what we produce but also how we produce, which means a lean and green production technology and strategic partnerships with our customers and suppliers.

SUSTAINABILITY STANDARDS





Promotion of a circular economy project

SUSTAINABILITY MEASURES



Autothermal and regenerative processes in production



Recovery and reuse of packaging, encaps and core



Energy production and self-consumption through installed solar panels

Differentiation and recycling of production and office waste



Calculation of **Carbon Footprint** based on **GHG protocol** for the Coverne group:

scopes 1,2,3

Reusable and recyclable exhibiton stands



HIGH PERFORMANCE PET BASED BACKSHEETS FOR UTILITY AND DISTRIBUTION GENERATION

PET BASED BACKSHEETS FOR UTILITY

Coveme's dyMat[®] PET based backsheets for 1500V features thicker inner PET layers in order to comply with the new IEC rules for 1500V insulation. They guarantee more than DHT 2500 hrs, PCT(HAST) 72 hrs and more than 400 kWh/ m2 of UV irradiation resistance. Coveme offers mono or multilayer versions for 1500 VDC, backsheets can be supplied in white or black colour.



CLEAR PET BASED BACKSHEETS FOR BIFACIAL PV

Coveme's dyMat[®] transparent high grade PET backsheets are employed as an alternative to glass in Bifacial modules or where transparency is required (eg. greenhouses). The polymers, primer and adhesives specifically developed for these products provide an extra high resistance to UV and humidity. dyMat[®] Clear PET Backsheets are suitable for 1000 and 1500 VDC and have a proven track record being employed in the world's first bifacial 1500V installation.



OUTPUT INCREASING OPTIONS:

dyMat[®] Selective

Optional white or black grid incorporated in the backsheet that turns the space in between the cells and the borders into a highly reflective area for significant output improvement. The grid layout is defined according to customer's cell shape and size.



BLACK HIGH REFLECTIVITY BACKSHEETS FOR DISTRIBUTED GENERATION

Coveme offers high reflectivity dyMat[®] black backsheets for 1000/1500 VDC installations for distributed generation (DG), in particular rooftop. The range includes monolayer or multilayers versions with a high reflectivity coating. This feature was studied and developed by Coveme to balance the intrinsic light absorption of black colour.



HIGH BARRIER BACKSHEETS FOR DISTRIBUTED GENERATION AND UTILITY

Coveme has developed a range of dyMat[®] backsheets specifically designed for TOPCon, HJT, thin film (CIGS, a-SI, OPV), flexible PV and c-SI photovoltaic modules installed near water. The barrier layer is available in aluminium or PET. Both versions have a very low WVTR value, in addition the PET barrier is available in a clear version for a completely transparent high barrier backsheet.





Coveme is certified ISO 9001: 2015 for quality management standards, ISO 14001: 2015 for environmental management and ISO 45001:2018 for occupational health and safety.

COVEME ITALY	
CERTIFICATES	

IMQ

150 9001-2015











CERTIFIED IATF 16949:2016 COMPANY

Coverne is IATF (International Automotive Task Force) certified as suppliers to the automotive industry



Coverne has received the Bronze Medal Ecovadis certification as the result of a corporate sustainability performance evaluaton.



Coverne complies with the Ecomate rating which evaluates the environmental, social and governance (ESG) performance of the company

COVEME PHOTOVOLTAIC PRODUCTS ARE UL REGISTERED AND TUV RHEINLAND AND TUV SUD CERTIFIED:







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