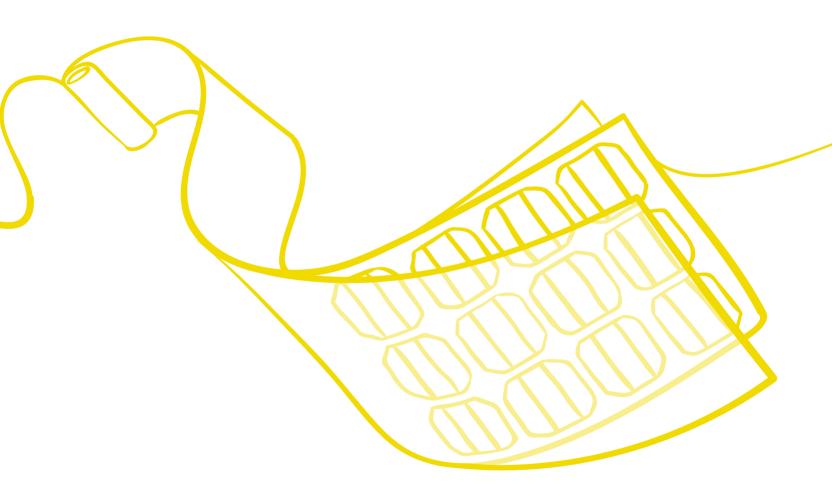
COVEME **PHOTOVOLTAIC**

Backsheets and Frontsheets for PV modules

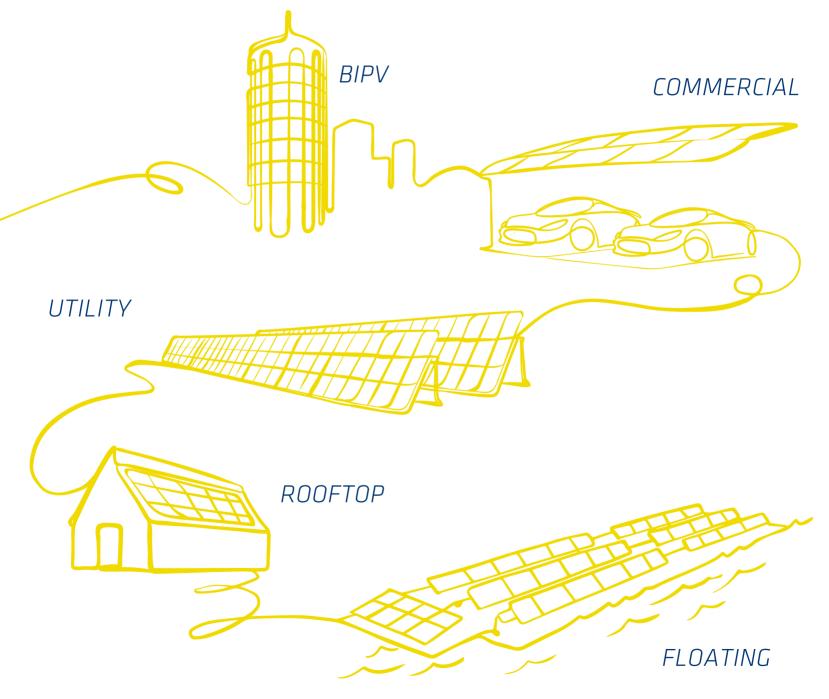




THE VALUE OF INNOVATION

2022

HIGH QUALITY BACKSHEETS FOR:

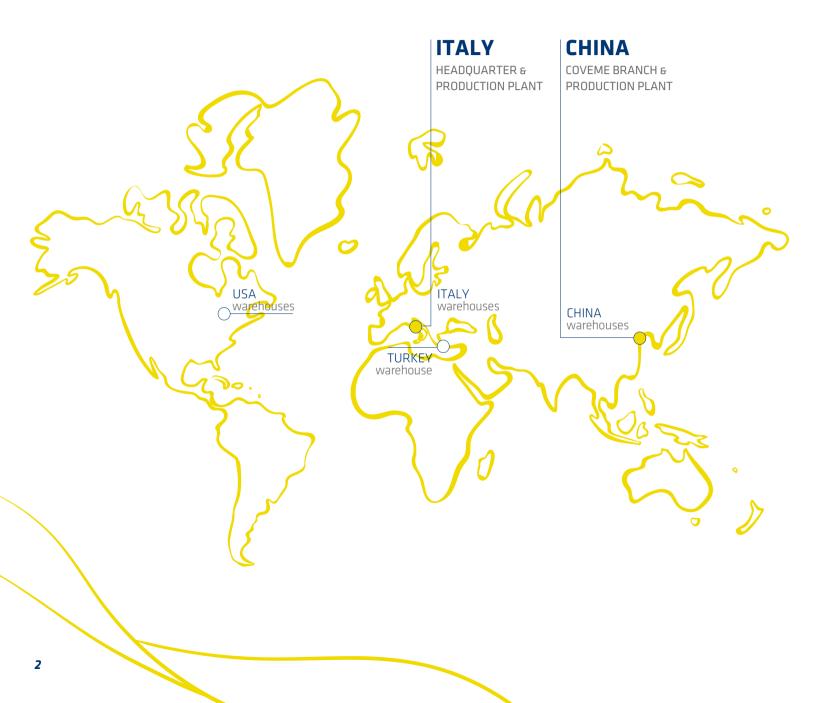


INDEX

COVEME TODAY	2
PRODUCTION	4
QUALITY	6
SUSTAINABILITY	7
OUR GREEN SOLUTIONS	8
PHOTOVOLTAIC DIVISION	11
OVERVIEW	12
PRODUCT RANGE	15
BACKSHEETS	16
FRONTSHEETS	48
SPECIALITIES	50
ACCESSORIES	54
CERTIFICATIONS AND MEMBERSHIP	55

COVEME TODAY

OVER 50 GW OF INSTALLATIONS WORLDWIDE IN 20 YEARS OF ACTIVITY AS BACKSHEET AND FRONTSHEET PRODUCER



of know-how in converting polyester film. **15 GW BACKSHEET AND FRONTSHEET PRODUCTION**

capacity per year

OVER 50 YEARS

Worldwide **COMMERCIAL AND LOGISTIC NETWORK**





CERTIFIED QUALITY, SAFETY AND ENVIRONMENTAL

standards.

PRODUCTION

RESEARCH & DEVELOPMENT

Coveme has been converting polyester film for over 20 years and has successfully developed sophisticated technologies in the production of high-tech films for various industries. Clients' specifications are defined individually and monitored throughout the whole production chain, including suppliers, logistics and service process.



Our laboratories have always been one of the most advanced and strong points of the company, where our technological and operative know how is at complete disposal of the clients' needs. Coveme's research in photovoltaics focuses on the reliability of our products that guarantee our customers higher productivity, maximum module power output and the best cost efficiency.



15 GW LAMINATION AND COATING proprietary production capacity

FULLY AUTOMATED processes

CUSTOMIZED rolls. sheets and **PUNCHED** formats

14 production lines

LAMINATION, SURFACE TREATMENT, HEAT STABILIZATION, COATING, SLITTING

3 R&D LABORATORIES in Europe and Asia Highly SOPHISTICATED EQUIPMENT **CUSTOMIZED RESEARCH PROJECTS** for clients Dedicated INNOVATION TEAM

Strong academic and industrial **PARTNERSHIPS**

QUALITY

The choice of a quality backsheet or frontsheet is fundamental for the performance and durability of a PV module. Coveme's dyMat[®] products are made of specifically developed polymers, adhesives and coatings to guarantee full protection and insulation of the module during its entire lifetime. Coveme's production processes are subject to rigid and well defined quality protocols and are ISO 9001:2015 certified. 20 years of continuous investments in product and process innovation dedicated to the photovoltaic industry make Coveme the most reliable and longstanding supplier of quality materials in the market today.



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. The company continuously optimizes its emission treatments, waste disposal and energy resources and actively pushes forward sustainability.



LONG HISTORY OF HIGH QUALITY backsheets and frontsheets
 Guaranteed DURABILTY AND PERFORMANCE
 SPECIFIC AND EFFICIENT base materials
 International CERTIFIED STANDARDS through ISO 9001:2015
 CONSTANT INVESTMENT in product and process innovation

ENERGY SELF-CONSUMPTION through installed solar panels

PARTIAL SELF-POWERING production lines

RECYCLING AND REUSE of packaging material

REPLACEMENT OF SINGLE-USE plastic materials



OUR GREEN SOLUTIONS



dyMat[®] ECO for 1000 or 1500 VDC are the very first backsheets made with rPET availabe on the market today and has the same guaranteed performances as Coveme standard products.

Coveme has made sustainability one of its top priorities not only on a corporate level but also applied to its single Business Units.

For its clients in the photovoltaic industry Coveme's roadmap of green solutions starts from polyester-based back- and frontsheets suitable of the most virtuous disposal and latest recycling technologies, offers module manufacturers unique on today's market - backsheets made of recycled polyester film, and last but not least sees the company's continous investments and investigations in EOL and LCA studies in order to promote a circular economy model.

The polyester film inside dyMat[®] backsheets and frontsheet have more sustainable end-of-life (EOL) possibilities, compared to fluorinated products for which the only viable disposable method is landfill. dyMat[®] PET based backsheets meanwhile can be disposed of in different ways:



INCINERATION: during the combustion process new energy is generated but there are still risks of toxic substances being release into the environment.

PYROLYSIS: during this more virtuous process new electricity and also new fuel are generated.

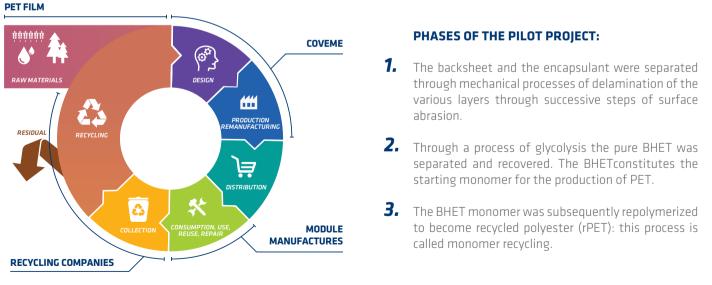
MONOMER RECYCLING: at the end of their life cycle the backsheets undergo a recycling process bring the PET back into a monomer state which can then be repolymerized to become recycled polyester (rPET). See chapter 3: dyMat[®] Circular economy project.

LCA AND CARBON FOOTPRINT STUDY ON DYMAT[®] PYE BACKSHEET:

Coveme has commissioned a study on the LCA of one of its backsheets which will aim to demonstrate that the amount of CO2 generated during the life cycle of a PET-based backsheet is much lower than that containing a fluorinated material. If this study were carried out on a backsheet containing rPET, the amount of CO2 generated would clearly be even lower, precisely due to the nature of the origin of the recycled PET.

3. **DYMAT® CIRCULAR** ECONOMY PROJECT

Coveme, in collaboration with important international partners, has studied the feasibility of a circular process for the recovery of the PET based Backsheet at the end of life of the solar module:



This pilot project was successfully carried out and completed, proving that it is possible to implement a circular economy process on the backsheet used inside the photovoltaic module.

1.

DYMAT® GREEN

PRODUCT

dvMat[®] ECO is a revolutionary range of backsheets composed of 33% recycled polyester (rPET). This rPET derives from an innovative upcycling process in which post-consumer plastic waste (plastic bottles, food trays, caps, etc) is processed for the production of rPET.

See dyMat ECO >>paqq.18-19

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 15GW and a 20 year long experience in supplying the photovoltaic industry, Coverne is today one of the top three suppliers of backsheets and frontsheets for pv modules in the market. The company's dyMat[®] range of solar panel films offers solutions for all types of pv modules in any installation environment. dvMat[®] photovoltaic laminates feature a wide choice of polyester and fluorinated materials, mono and multilayer structures and several output enhancing options. The use of recyclable materials as well as the recent introduction of recycled polyester film (rPET) as base materials are the result of specific research projects in collaboration with suppliers and scientific institutes and complete the range from a sustainable point of view.

Today over 50 GW of solar panels installed worldwide are protected by dyMat[®] pv backsheet and frontsheet and confirm the guaranteed and certified product performance of Coverne's photovoltaic materials.

BACKSHEET AND FRONTSHEET SOLUTIONS for any module type **20 YEARS OF EXPERIENCE** in supplying the PV industry **15 GW** current internal **PRODUCTION CAPACITY** Certified insulation and protection for **UP TO 30 YEARS** 50 GW OF SOLAR PANELS INSTALLED worldwide protected by dyMat®



PRODUCT RANGE

1000/1500 VDC PET BASED BACKSHEETS

Best Selling Backsheets

dyMat® PYE® MONO L PLUS dyMat® HDPYE® SPV L dyMat® PYE SPV® L dyMat® APYE®

dyMat [®] Eco Backsheet With rPET

dyMat® PYE® r33 MONO L PLUS dyMat® HDPYE® r33 SPVL dvMat® HDPYE r33 SPV LDO Ø

1000 VDC PET BASED BACKSHEETS

dyMat® Double Layer Pet

dyMat[®] PYE SPV[®] - SPVL[®] dyMat[®] PYE 3000[®] - 3000 L[®] dyMat[®] PYE SPV[®] L 305 dyMat[®] PYE SPV[®] C dyMat[®] PYE SPV[®] L

dyMat® Monolayer White Pet

dyMat® PYE® MONO O PLUS dyMat® PYE® MONO L dyMat® PYE® MONO L PLUS Ø dyMat® PYE® MONO C

dyMat[®] Clear Monolayer Pet dyMat[®] CIrPYE[®] MONO

1500 VDC PET BASED BACKSHEETS

dyMat® Double Layer Pet

dyMat® HDPYE® SPV L 🧖 dyMat® BK HDPYE® SPV L dyMat® HDPYE® SPV C

dyMat [®] Monolayer White Pet dyMat[®] HDPYE[®] MONO O - MONO O PLUS

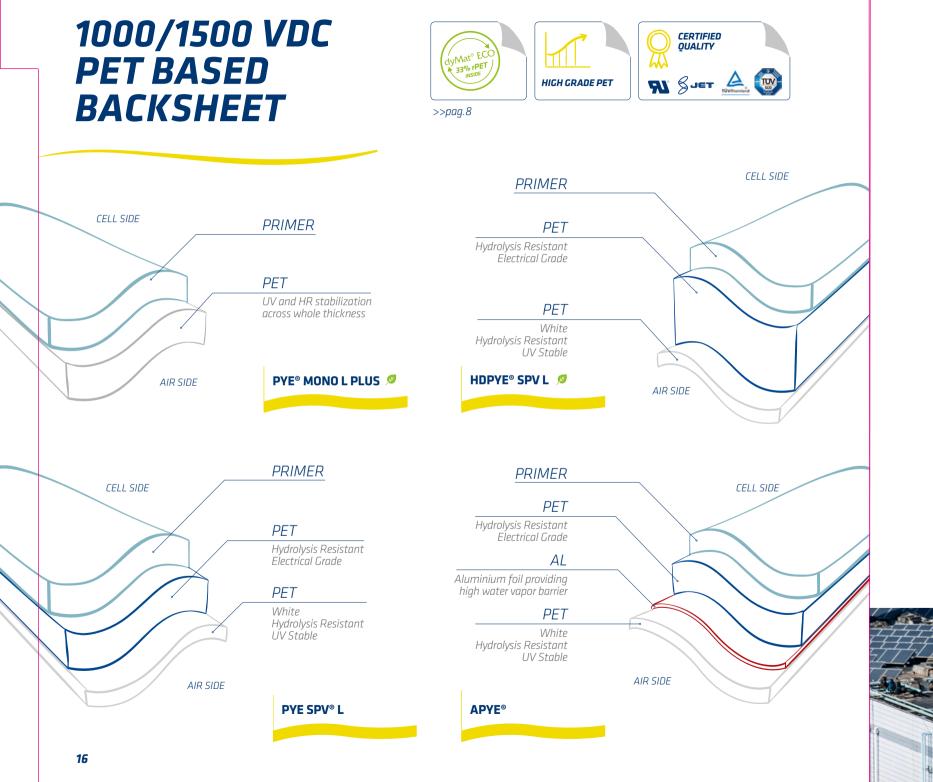
dyMat[®] Clear Double Layer Pet dyMat[®] Clear HDPYE - Clear HDPYE F

1000/1500 VDC PET BASED BACKSHEETS

dyMat[®] Black High Reflectivity dyMat[®] PYE[®] Mono CBK HR dyMat[®] HDPYE[®] SPV CBK HR

16 17 19	dyMat [®] High Barrier Backsheet dyMat [®] CIr HDPYE LDO dyMat [®] HDPYE SPV LDO <i>9</i> dyMat [®] HDPYE AX LDO dyMat [®] CIr HDPYE AX LDO dyMat [®] APYE L dyMat [®] AHDPYE SPV P	35
	1000 VDC TEDLAR BASED BACKSHEETS	36
	dyMat® White Tedlar® Based	37
20	dyMat® TsL 50/125 - TsL 50/250 dyMat® TsL 75/150 - TsL 100/100	
20 21	dyMat® TsL 75/150 - TsL 100/190 dyMat® Clear Tedlar® Based	39
21	dyMat® CIr TsL 50/158	
	1000 VDC TEDLAR BASED BACKSHEETS	40
	dyMat® White Tedlar® Based	41
22	dyMat® TsL 50/285 - 50/350	
22	dyMat® TsO 60 dyMat® Clear Tedlar® Based	43
	dyMat® Clr TsL 50/285	45
	1000 VDC PVDF BASED BACKSHEETS	44
24	dyMat® KL 50/250 - KL 75/150 - KL 100/190	
	1500 VDC PVDF BASED BACKSHEETS	46
26 27	dyMat® KL 50/250 - KL 50/285	
	1000-1500 VDC DYMAT® FRONTSHEETS	48
	dyMat® CIr FS PYE MONO G - PYE MONO	
	dyMat® CIr FS HDPYE MONO G - HDPYE MONO	
28	dyMat® CIr FS HDPYE G - HDPYE	
31	DYMAT [®] SPECIALTIES	50
	dyMat $^{\circ}$ for Flexible, Printed and Organic PV	
	dyMat® for Retro-Fitting of PV Installation	
32		
33		54
	dyMat® E dyMat® EPE	
	uyiviut EPE	

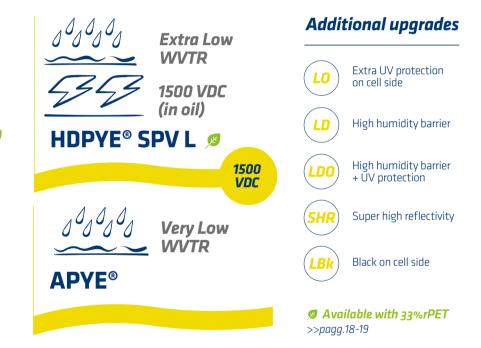
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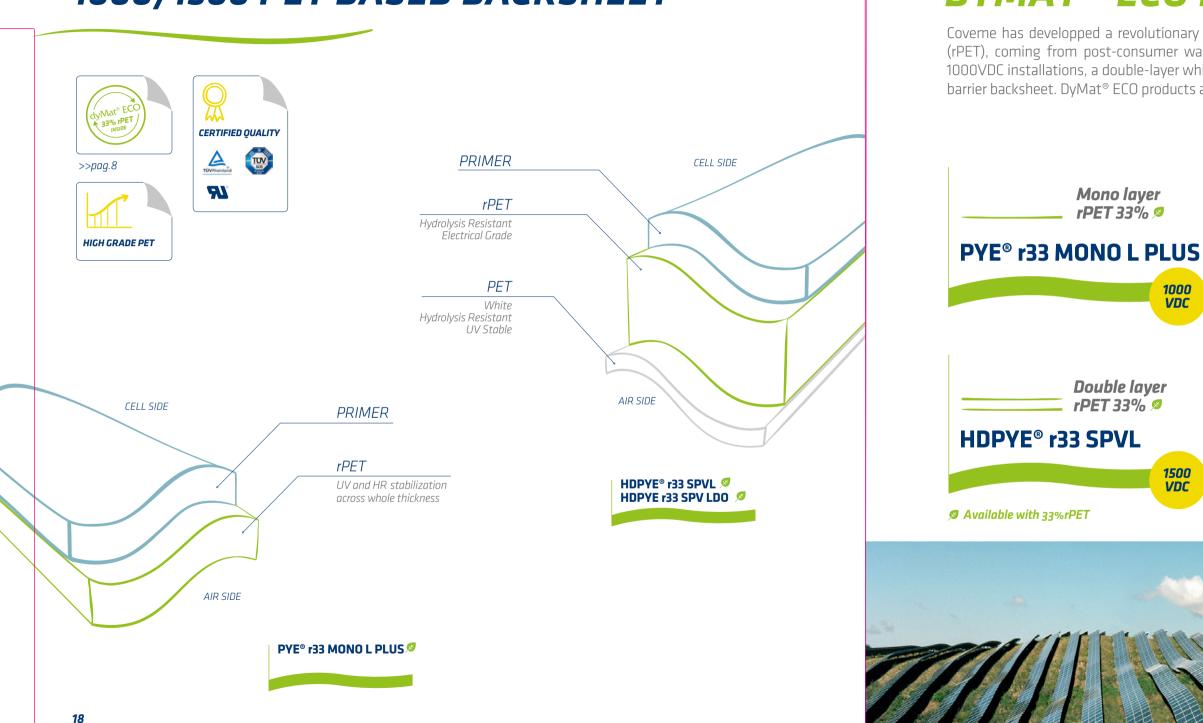
BEST SELLING BACKSHEETS

Coveme's most selling backsheets for 1000 or 1500 VDc installations feature a special high-grade PET able to guarantee more than DHT 2500 hrs, PCT(HAST) 72 hrs and more than 400 kWh/m2 of UV irradiation resistance. Additionally, the dyMat[®] PYE series provides a high adhesion strength to all types of encapsulants, excellent resistance to sand, salt mist, ammonia and chemical solvents corrosion. The mono layer version features superior resistance to UV and hydrolysis thanks to its bulk technology and shows excellent performances in the combined UV+DHT tests together with an intrinsic high reflectivity. Coveme's Aluminum backsheet version, with a special special AI layer inside, guarantees an extra low WVTR and a superior moisture protection for humidity sensitive cells and installations near water. The PYE and HDPYE dyMat[®] are available in white or black PET, furthermore they are also available with the 33% of recycled PET *9*.

Best Performance Price/Ratio PYE[®] MONO L PLUS 🧖 Standard product **PYE SPV L®**



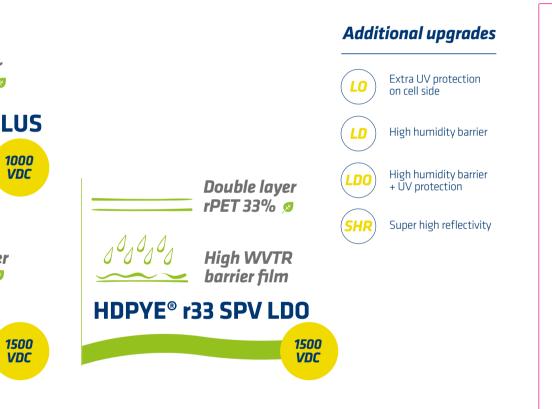




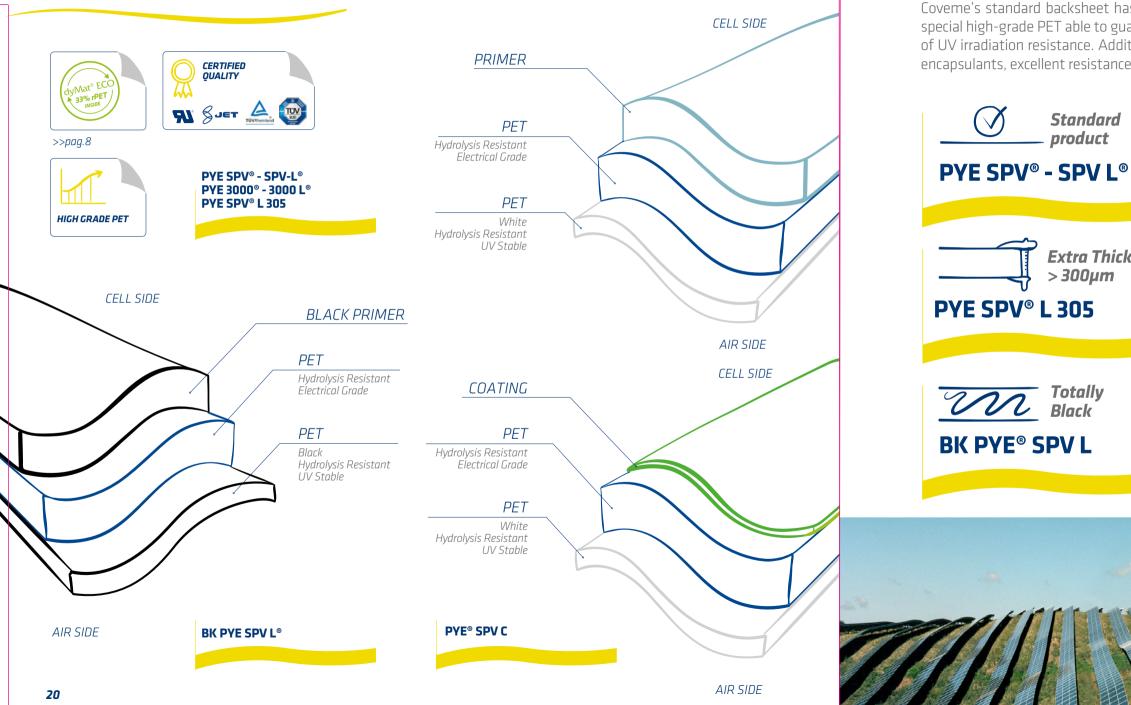
1000/1500 PET BASED BACKSHEET

DYMAT ® ECO BACKSHEET WITH rPET Ø

Coveme has developped a revolutionary range of dyMat[®] ECO backsheets composed of 33% recycled polyester (rPET), coming from post-consumer waste recycling. The range consists of a single-layer rPET backsheet for 1000VDC installations, a double-layer white rPET backsheet for 1500VDC installations and an rPET extra moisture barrier backsheet. DyMat[®] ECO products are the very first rPET backsheets available on the market today.







dyMat[®] DOUBLE LAYER PET

Standard

Extra Thick

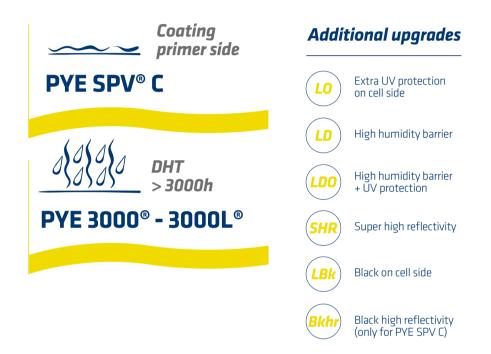
> 300µm

Totally Black

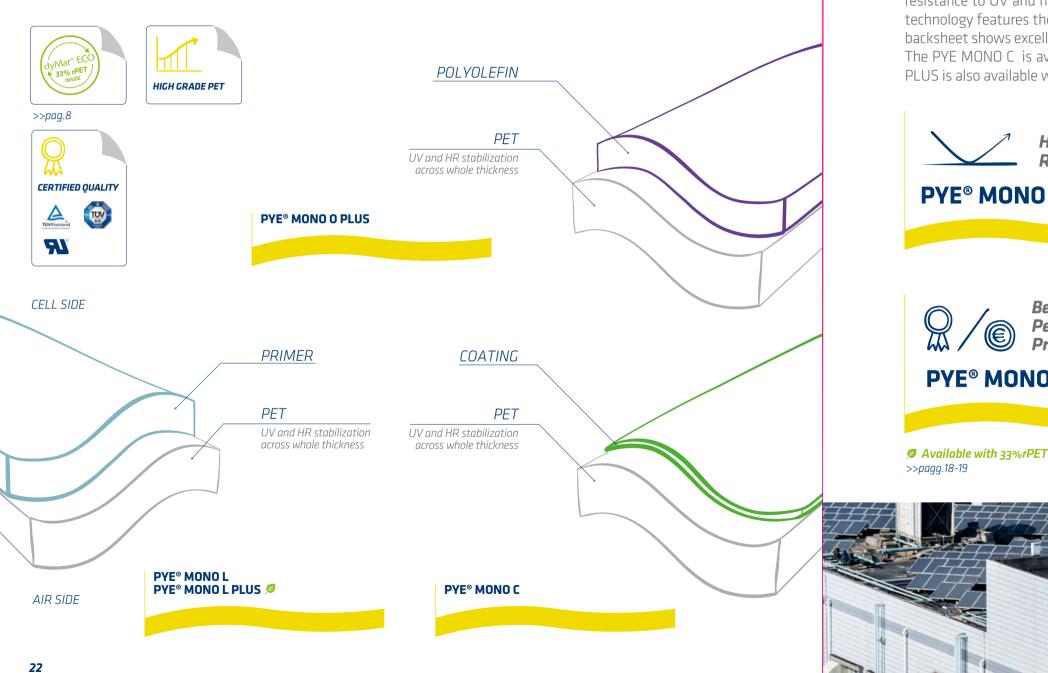
BK PYE® SPV L

product

Coveme's standard backsheet has been successfully tested on the market for more than 15 years. It features a special high-grade PET able to guarantee more than DHT 2500 hrs, PCT(HAST) 72 hrs and more than 400 kWh/m2 of UV irradiation resistance. Additionally, the dyMat[®] PYE series provides a high adhesion strength to all types of encapsulants, excellent resistance to sand, salt mist, ammonia and chemical solvents corrosion.







dyMat[®] MONOLAYER WHITE PET

High Reflectance

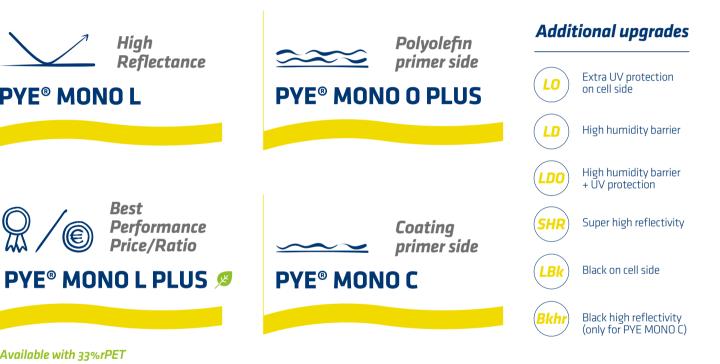
Best

Performance Price/Ratio

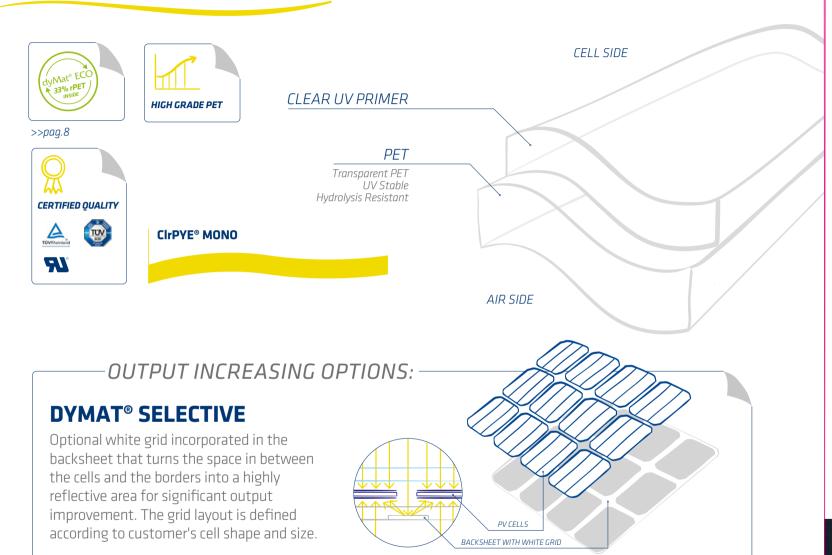
PYE® MONO L

E

This new generation of backsheet from Coverne is based on a single PET layer (Mono Layer) that features superior resistance to UV and hydrolysis thanks to its bulk technology. Contrarily to the co-extrusion technology, the bulk technology features the UV protection all across the whole thickness of the single PET layer. Coveme's monolayer backsheet shows excellent performances in the combined UV+DHT tests, and features an intrinsic high reflectivity. The PYE MONO C is available with white , black or black high reflectivity coating, furthermore the PYE MONO L PLUS is also available with the 33% of recycled PET .







DYMAT[®] HMIRROR LR >>paq. 50

It is possible to use dyMat[®]HMirror LR reflective laminates for retro-fitting of PV installations to increase the final output.

dyMat[®] CLEAR MONOLAYER PET

Totally transparent high grade polyester backsheets for bifacial or standard modules in BIPV, utility, greenhouse, commercial installations, and grid or off grid application. This new generation of clear backsheets with special UV primer allows to replace standard backsheets for high transparency solutions. dyMat[®] Clear Monolayer for 1000 VDC features superior resistance to UV and hydrolysis thanks to its bulk technology which features UV protection all across the whole thickness.

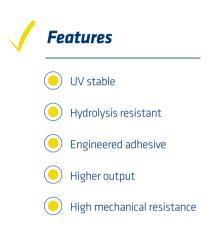


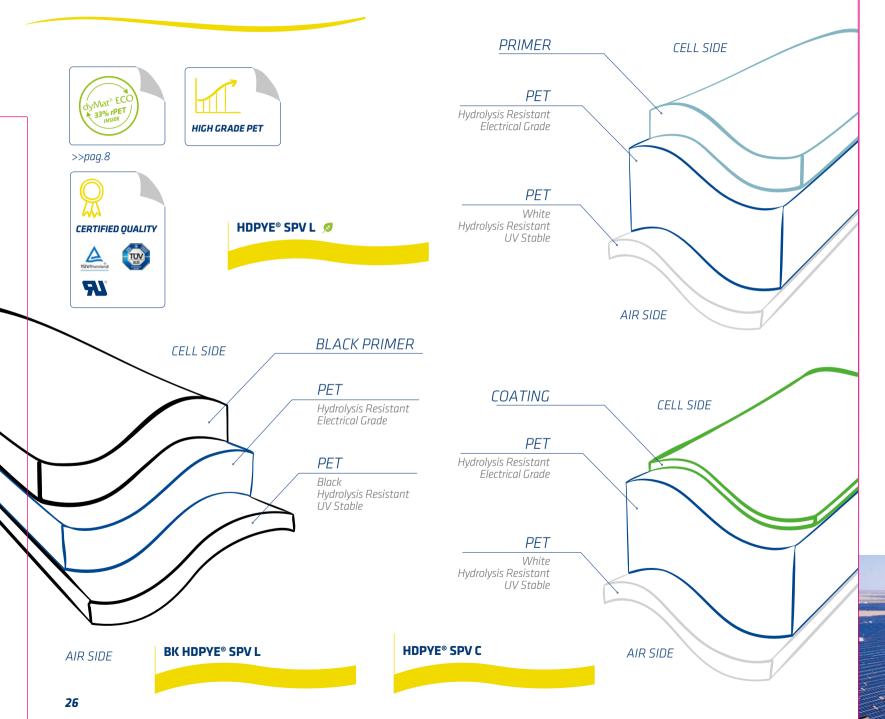
Totally Transparent

CIrPYE® MONO

PRIMER TYPES Extra UV protection LO on cell side







dyMat[®] DOUBLE LAYER PET

Coveme's PET backsheets for 1500V have a proven track record being employed in the world's first 1500V project and further major ongoing 1500V plants. It features thicker inner PET layers in order to comply with the new IEC rules for 1500V insulation. It guarantees more than DHT 2500 hrs, PCT(HAST) 72 hrs and more than 400 kWh/m2 of UV irradiation resistance. Additionally, the dyMat[®] HDPYE series provides a high adhesion strength to all types of encapsulants, excellent resistance to sand, salt mist, ammonia and chemical solvents corrosion. The HDPYE SPV C, is available with white , black or black high reflectivity coating, furthermore the HDPYE SPV L is also available with the 33% of recycled PET [@].



Extra UV protection



High Reflectance



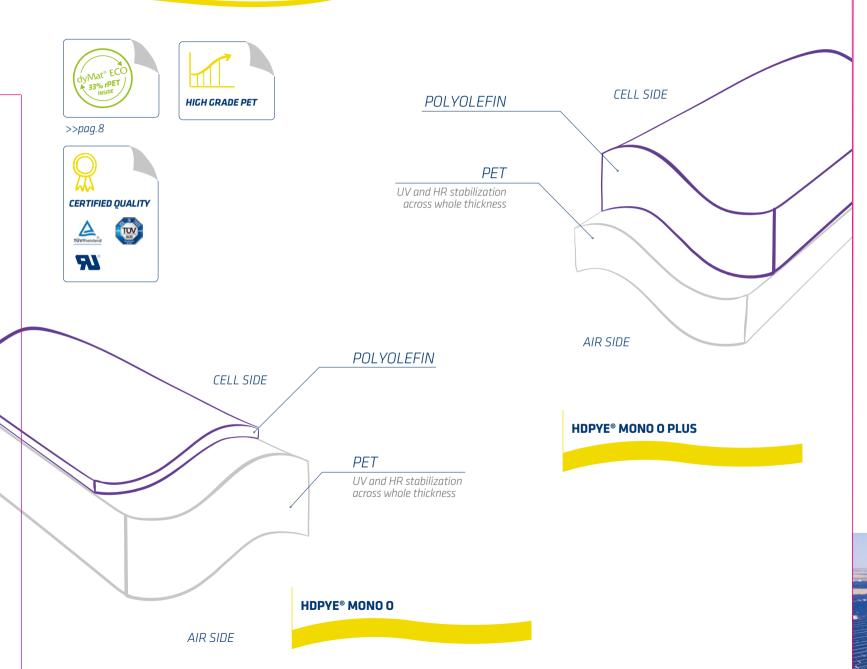
1500 VDC (in oil)

HDPYE® SPV C

Available with 33%rPET >>pagg.18-19







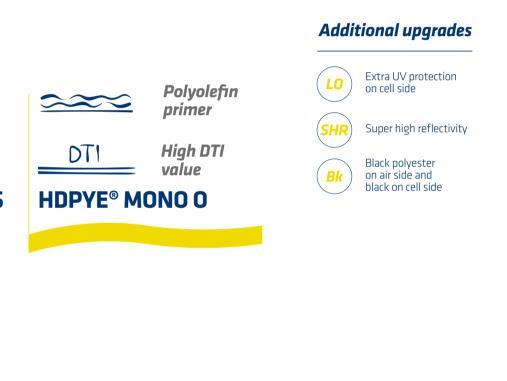
dyMat [®] MONOLAYER WHITE PET

This new generation of backsheet is a laminate based on 2 layers, single PET and PO layers. High quality monolayer PET with UV and HR stabilization across whole width with extended life and superior abrasion resistance. The Primer side is treated with a special PO primer with high DTI and UV resistance to improve performance. The laminate thickness has been designed to provide the best combination of properties in terms of electrical insulation and weatherability.

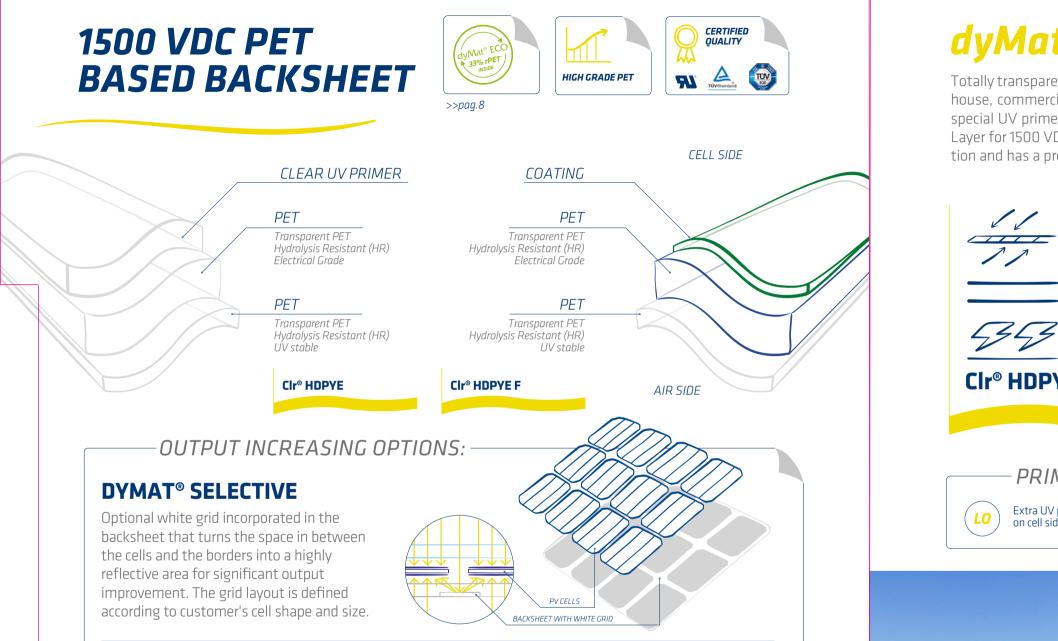


HDPYE[®] MONO O PLUS

28





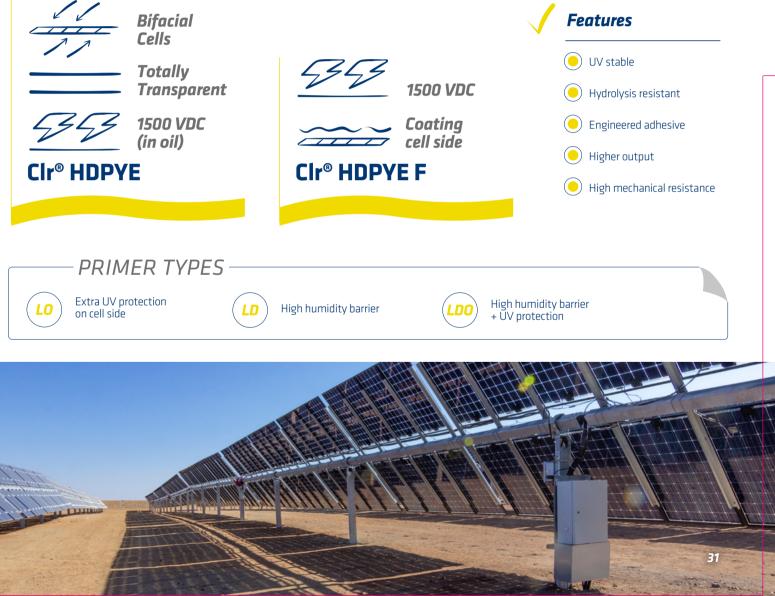


DYMAT[®] HMIRROR LR >>pag. 50

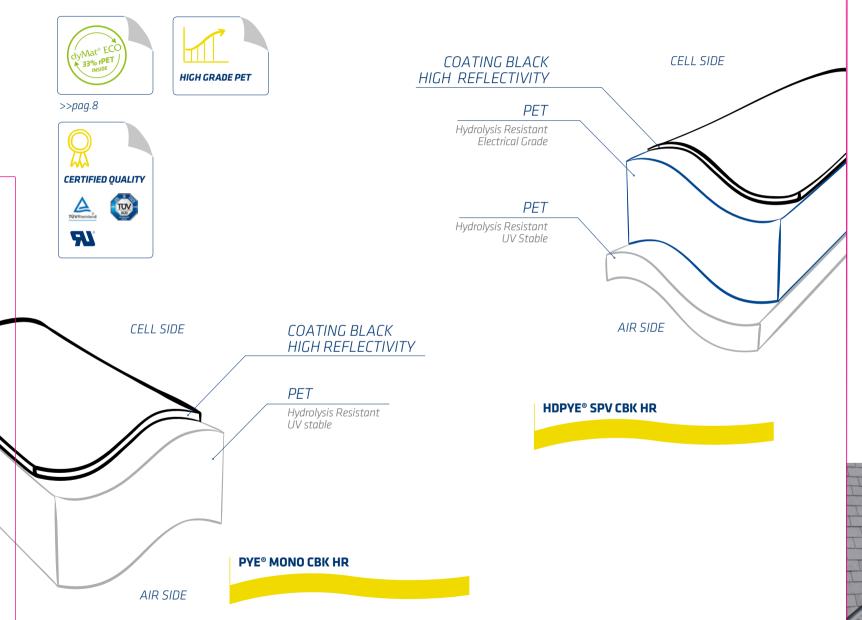
It is possible to use dyMat[®]HMirror LR reflective laminates for retro-fitting of PV installations to increase the final output.

dyMat[®] CLEAR DOUBLE LAYER PET

Totally transparent high grade polyester based backsheets for bifacial or standard modules in BIPV, utility, greenhouse, commercial installations, and grid or off grid application. This new generation of clear backsheets with special UV primer allows to replace standard backsheets for high transparency solutions. dyMat [®] Clear Double Layer for 1500 VDC features a thicker inner PET layers in order to comply with the new IEC rules for 1500V insulation and has a proven track record being employed in the world's first bifacial 1500V installation.



1000/1500 PET BASED BACKSHEET



dyMat[®] BLACK HIGH REFLECTIVITY

dyMat[®] PYE MONO CBK HR is a mono-layer PET based laminate with an high reflectivity black coating for 1000 VDC installations, whereas HDPYE SPV CBK HR is a two layer PET based laminate with an high reflectivity black coating for 1500 VDC installations. The high reflectivity feature was studied and developed by Coveme in order to balance the intrinsic light absorption of black colour. This is obtained through an innovative black coating on the backsheet's cell side providing a reflectance of >55%. Together with a high bonding capacity to encapsulate, excellent protection from atmospheric agents and a long term resistance to hydrolysis dyMat [®] Black High Reflectivity is a highly performing and aesthetically appealing solution for pv module producers and end customers alike. The BkHR coating can be applied also to other dyMat[®] backsheet compositions.



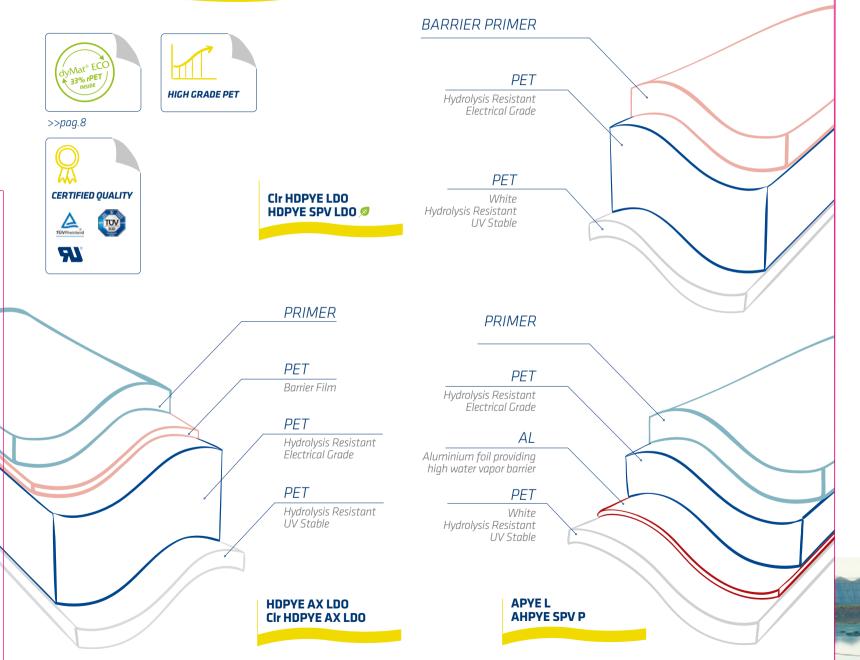


PYE® MONO CBK HR





1000/1500 PET BASED BACKSHEET



dyMat[®] HIGH BARRIER BACKSHEET

Coveme has developed a range of revolutionary backsheets specifically designed for photovoltaic modules that requires a high moisture barrier for different technologies .The range includes both backsheets with an aluminum layer, and backsheets with a barrier film, without the aluminum layer. The aluminum-based dyMat[®] backsheet has an extremely low WVTR value and it is the right solution for thin film (CIGS, a-SI and Perovskite), flexible and even c-SI photovoltaic modules installed near water. DyMat[®] barrier film backsheets are manufactured with an innovative integrated barrier layer which results in a low WVTR value. These laminates have been specifically designed to be used in pv modules with heterojunction cells and floating systems with all types of cells. Furthermore, these laminates, not having an aluminum layer, facilitate the production process of assembling the module. The dyMat [®]HDPYE SPV LDO is available with 33% rPET[@] inside. They are available in white, black or transparent versions (only barrier film without Aluminium)



Barrier Primer



UV Protection

HDPYE® SPV LDO 99 Cir® HDPYE LDO

1500 VDC

1500

VDC

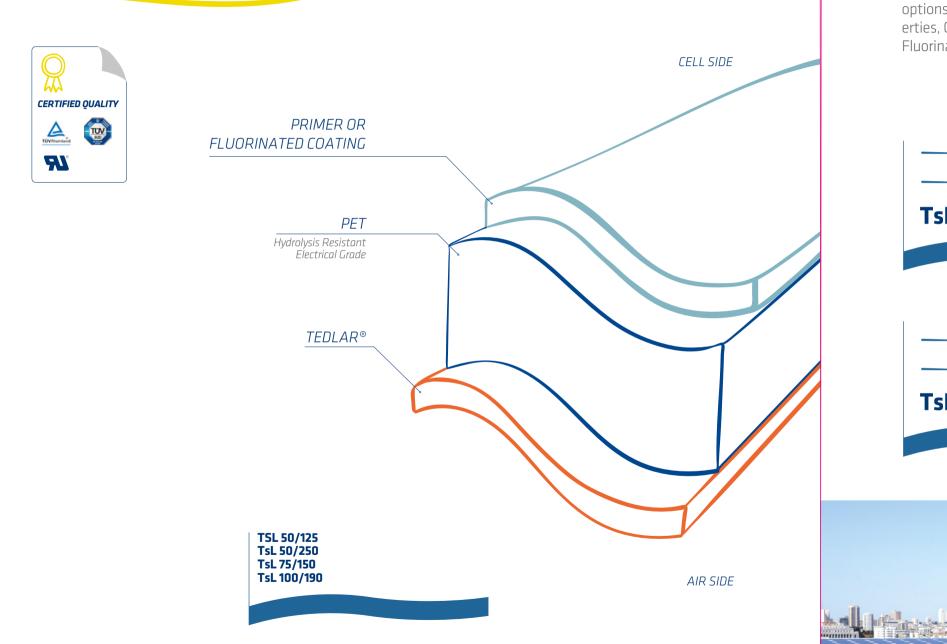


HDPYE® AX LDO Cir® HDPYE AX LDO





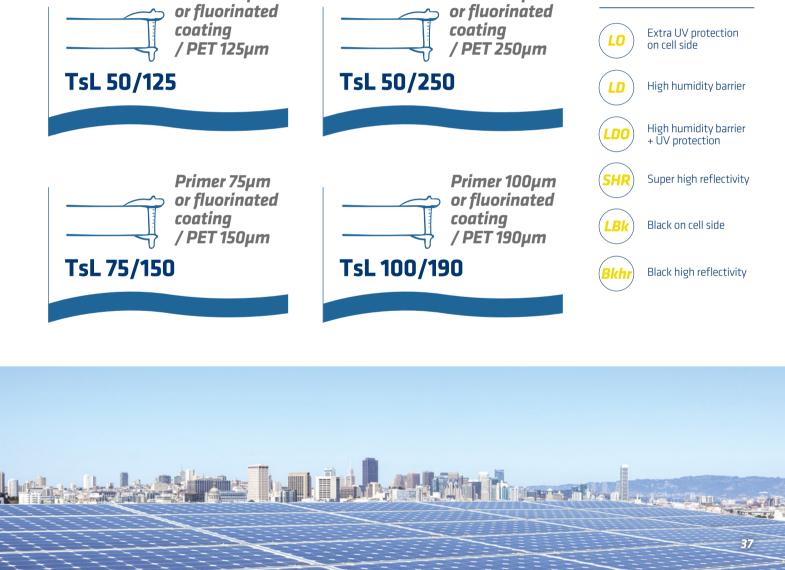
Available with 33%rPET >>pagg.18-19



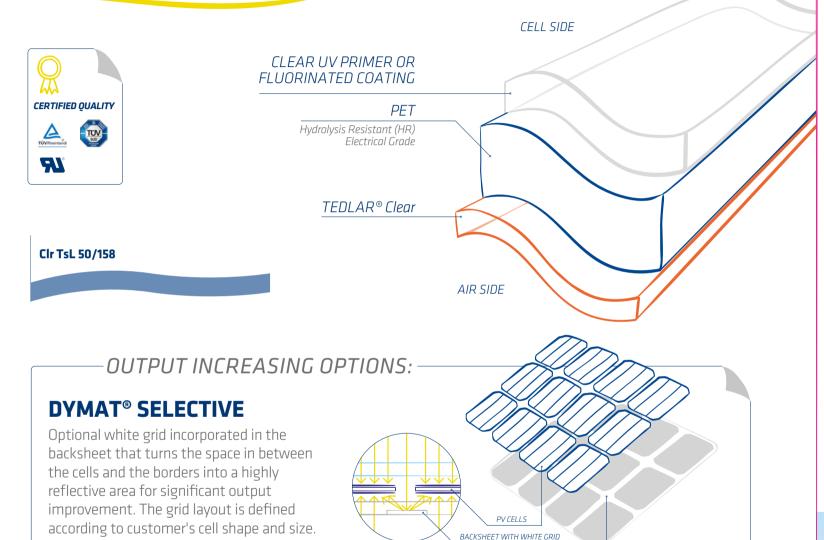
dyMat[®] WHITE TEDLAR[®] BASED

Primer 50µm

Coveme's Tedlar[®] based backsheet for 1000 VDC features a PVF layer of 25µm thickness combined with several options of inner PET thickness ranging from 150µm up to 250µm. As for the excellent Tedlar[®] weatherability properties, Coverne dyMat[®] TsL series exhibits outstanding resistance to UV irradiation. Fluorinated coating on cell side available.







DYMAT[®] HMIRROR LR >>pag. 50

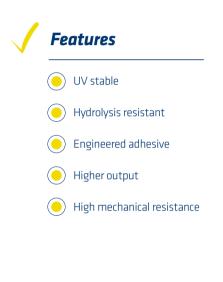
It is possible to use dyMat[®]HMirror LR reflective laminates for retro-fitting of PV installations to increase the final output.

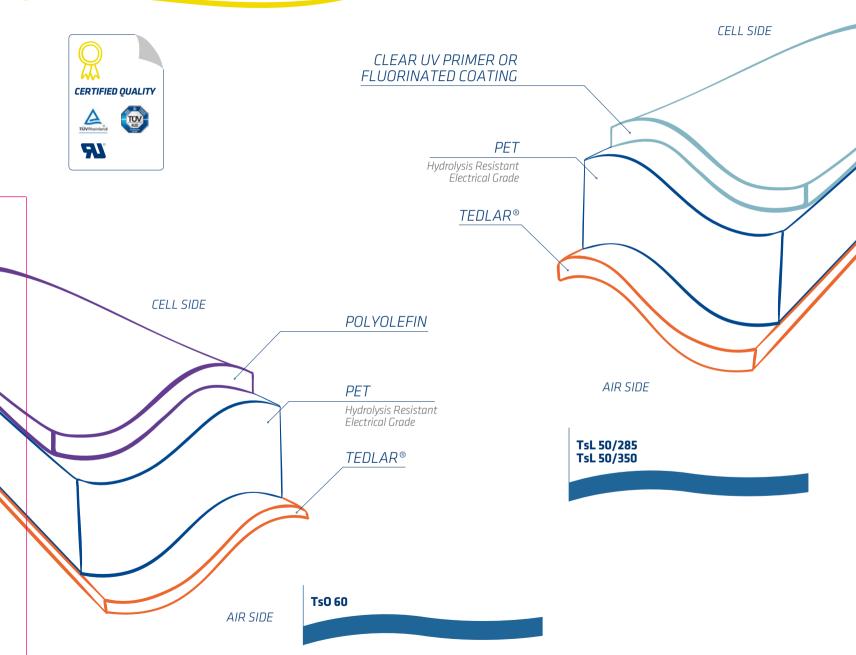
dyMat[®] CLEAR TEDLAR[®] BASED

Totally transparent Tedlar[®] based backsheets for bifacial or standard modules in BIPV, utility, greenhouse, commercial installations, and grid or off grid application. This new generation of clear backsheets with special UV primer allows to replace standard backsheets for high transparency solutions. The primer and adhesives specifically developed for these products provide an extra high resistance to UV and humidity. Fluorinated coating on cell side available.



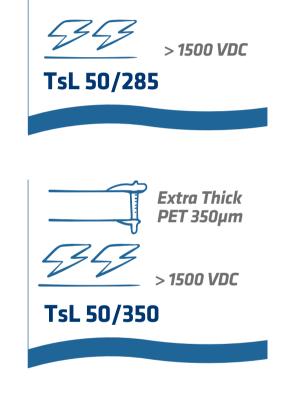




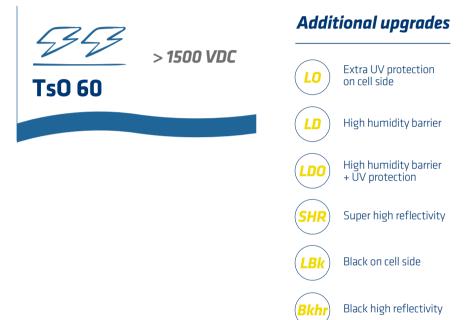


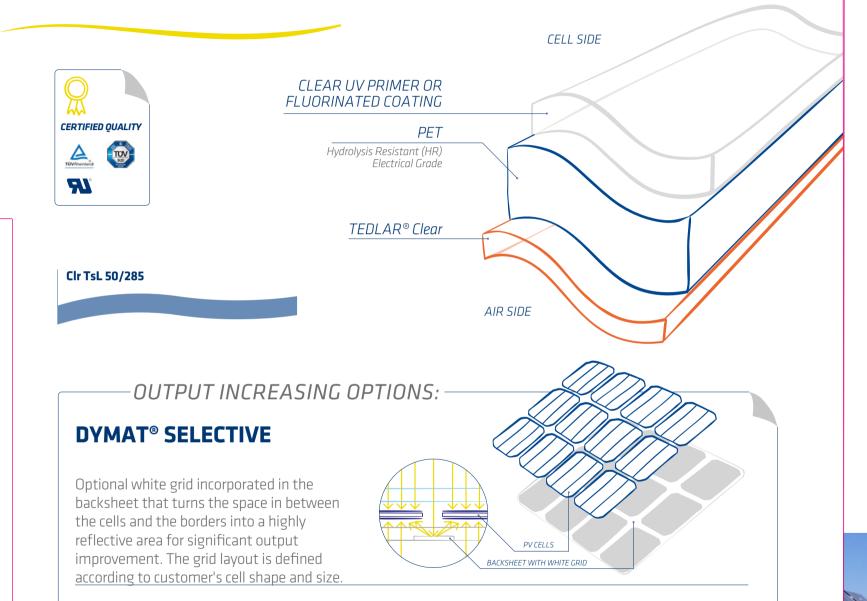
dyMat[®] WHITE TEDLAR[®] BASED

Coveme's Tedlar[®] based backsheet for 1500 VDC features a PVF layer of 25µm thickness combined with two options of inner PET thickness, 285µm or 350µm. As for the excellent Tedlar[®] weatherability properties, Coveme dyMat[®] TsL series exhibits outstanding resistance to UV irradiation. Fluorinated coating on cell side available.









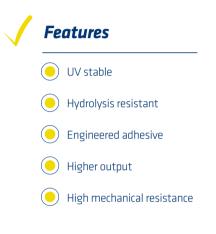
dyMat[®] CLEAR TEDLAR[®] BASED

Totally transparent Tedlar[®] based backsheets for bifacial or standard modules in BIPV, utility, greenhouse, commercial installations, and grid or off grid application. This new generation of clear backsheets from Coveme with special UV primer allows to replace standard backsheets for high transparency solutions. dyMat [®] Tedlar[®] Clear for 1500 VDC features a thicker inner PET layer in order to comply with the new IEC rules for 1500 VDC insulation. Fluorinated coating on cell side available.

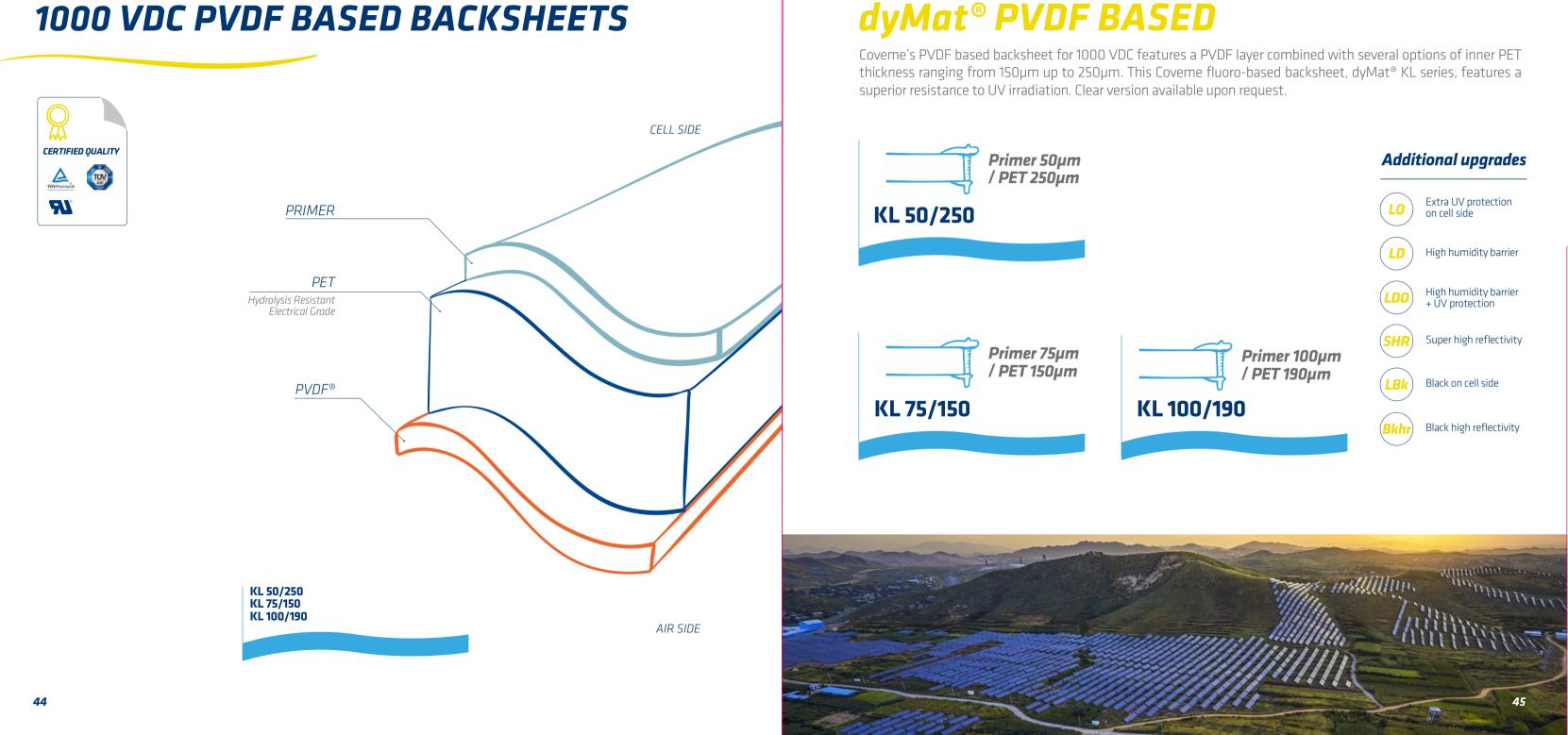


DYMAT[®] HMIRROR LR >>pag. 50

It is possible to use dyMat[®]HMirror LR reflective laminates for retro-fitting of PV installations to increase the final output.





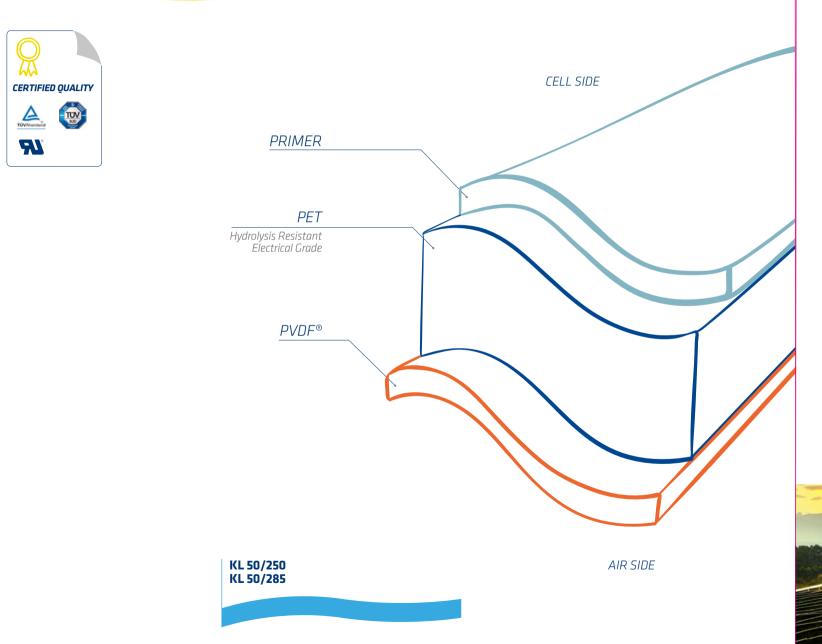


1000 VDC PVDF BASED BACKSHEETS





1500 VDC PVDF BASED BACKSHEETS



dyMat[®] PVDF BASED

Coveme's PVDF based backsheet for 1500 VDC features a PVDF layer combined with a thicker inner PET layer. This Coveme fluoro-based backsheet, dyMat KL series, features a superior resistance to UV irradiation. Clear version available upon request.



>1500 VDC (in oil)

KL 50/250



>1500 VDC NEW IEC Standard Compliant

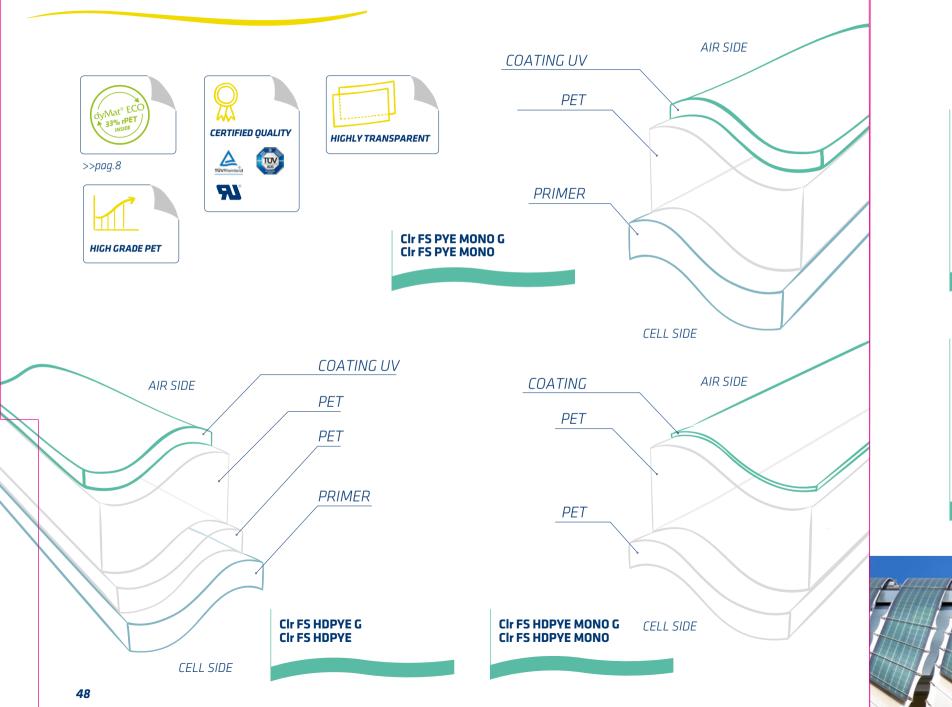
KL 50/285







1000 - 1500 VDC dyMat[®] FRONTSHEETS



dyMat[®] CLEAR FRONTSHEETS

This new generation of clear frontsheets developed by Coverne features an extra high UV and hydrolysis resistant polymer and is employed instead of glass, in semi-flexible and lightweight module. These highly transparent frontsheets are characterized by a specific coating with outstanding anti-scratch and anti-abrasion properties. dyMat[®] frontsheets are designed for up to 1500 VDC for pv modules in rooftop, automotive or nautical installations and grid or off grid application. Matt anti-glare versions are available.



Scratch Extra High

CIr FS PYE MONO G CIr FS PYE MONO

1000 VDC



Scratch Extra High UV Resistance

Anti

CIr FS HDPYE MONO G CIr FS HDPYE MONO

1500 VDC



COATING TECHNOLOGY

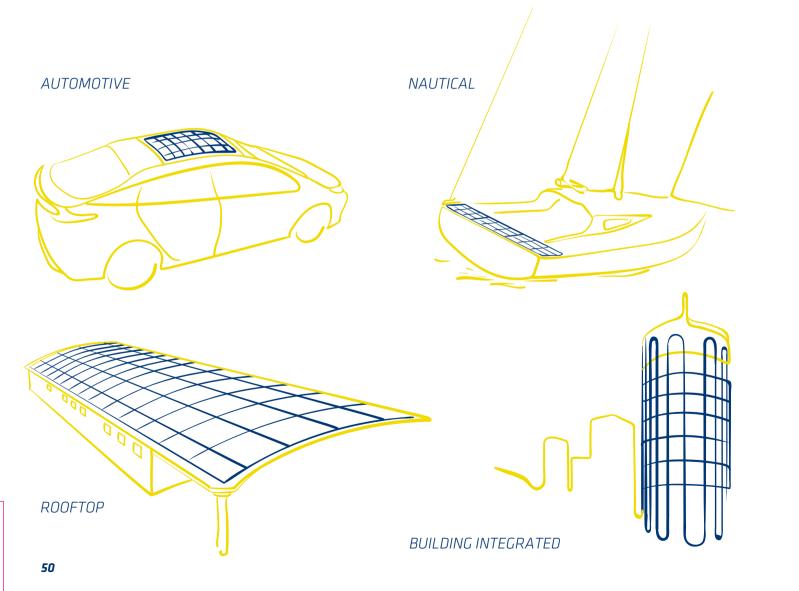
dyMat[®] Clear Frontsheets feature an innovative coating, proprietary of Coverne, that has been developed by the company's R&D departments. It is applied in an ultra-modern coating process that guarantees an elevated standard and combines the latest UV coating and EB curing technologies for dyMat[®] backsheets and frontsheets of constant and reproducible quality.





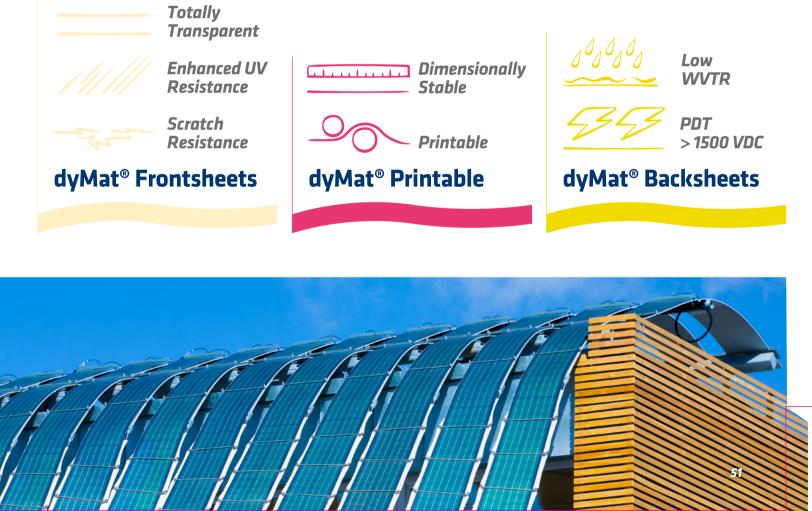
dyMat[®] SPECIALITIES

Coverne has developed specific dyMat[®] films and laminates that are employed as frontsheet or backsheet in flexible lightweight photovoltaic modules. For printed solar cells Coverne offers special films with printable coatings and high dimensional stability. Applications include rooftop, building integrated, automotive, nautical and all surfaces with limited loading capacity.



dyMat[®] FOR FLEXIBLE, PRINTED **AND ORGANIC PV**

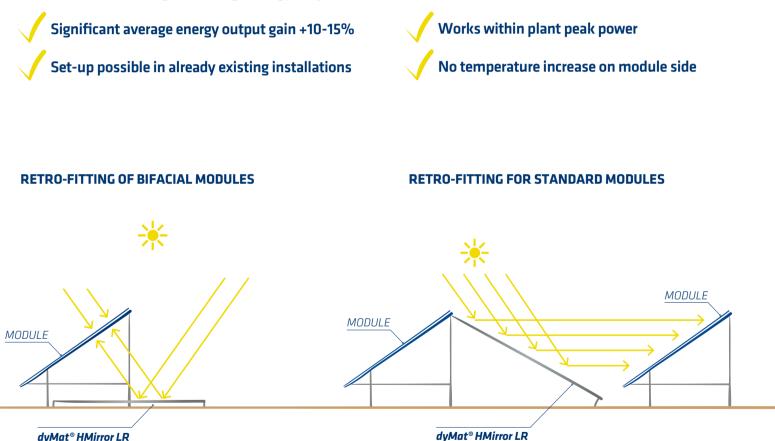
dvMat[®] CIr Frontsheet is a totally transparent laminate with a special coating for enhanced UV and scratch resistance combined with UV filtering properties. These characteristics make it particularly suitable to be employed as a frontsheet in flexible photovoltaics. For the back protection of these modules Coveme offers a range of high performance dyMat[®] Backsheets in different colours that guarantees durability over the years, electrical insulation and high resistance to weathering agents such as moisture and extreme temperatures . In the field of printable and organic photovoltaics Coverne offers its dyMat[®] Printable, a heat stabilized and surface treated polyester film suitable for roll to roll and sheet printing processes.





dyMat[®] SPECIALITIES

Coveme has developed a highly reflective laminate developed for the retrofitting of Bifacial and standard PV modules. dyMat[®] HMirror LR is installed between the module rows and reflects the sun light back onto the module, thus increasing the average energy output of the installation.



dyMat[®] FOR RETRO-FITTING OF PV INSTALLATIONS

dyMat[®] HMirror LR polymeric mirror film is a multilayer metallized laminate with a special scratch abrasion and UV resistant coating. The product is specifically designed for retro-fitting and features strong durability and high reflectance.





ACCESSORIES

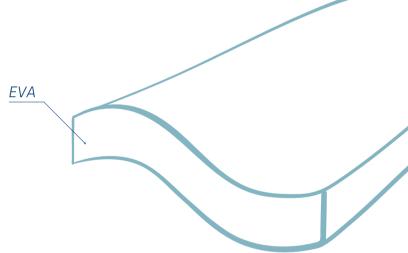
dyMat EPE®

dyMat EPE® is designed to be used as electrical insulator in between ribbons and bus bars in PV module fabrication. The material has a perfect bonding with both encapsulation EVA and whichever backsheet, thanks to its structure with a double layer of Primer.



CERTIFIED QUALITY

Transparent adhesive tape made of EVA. It is used to fix components such as cells, ribbons etc. during PV module fabrication. In the lamination process the substrate melts and becomes totally embedded with encapsulating EVA.



CERTIFICATIONS & MEMBERSHIPS

Coveme's 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 COVEME CHINA CERTIFICATES CSO ISO 9001:2015 CSO ISO 14001:2015 CSO ISO 45001 ISO 45001 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Coveme has received the Silver Medal Ecovadis certification as the result of a corporate sustainability performance evaluaton.

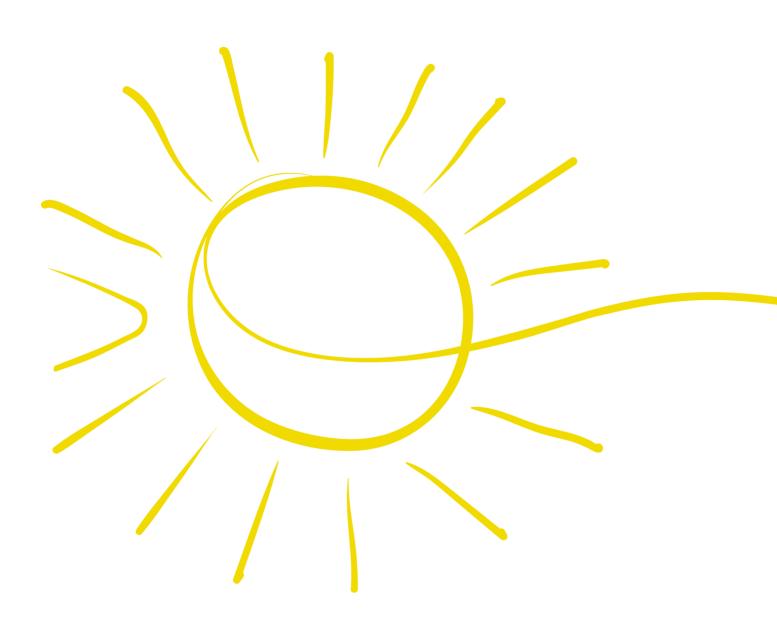


Coveme is honoured to be member of the most prestigious associations and bodies in the photovoltaic industry around the globe, believing strongly in the benefit of a continous cross-fertilization among peers















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