

Backsheet for PV modules

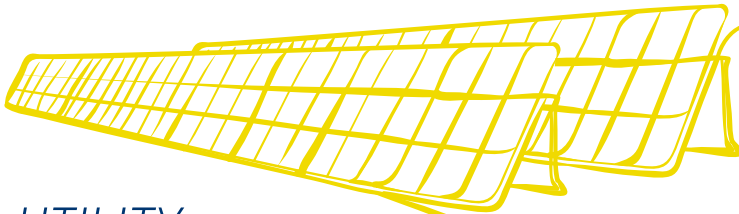
HIGH QUALITY BACKSHEETS FOR:



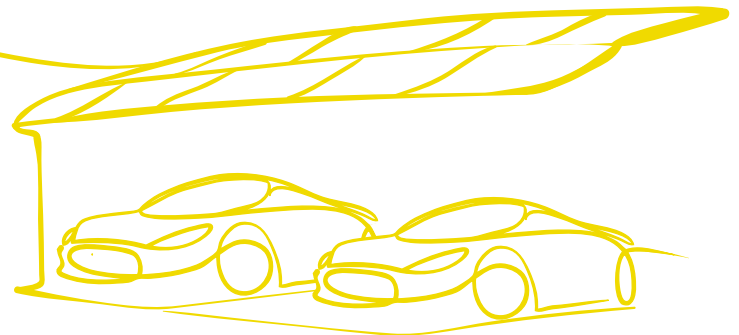
BIPV



ROOFTOP



UTILITY



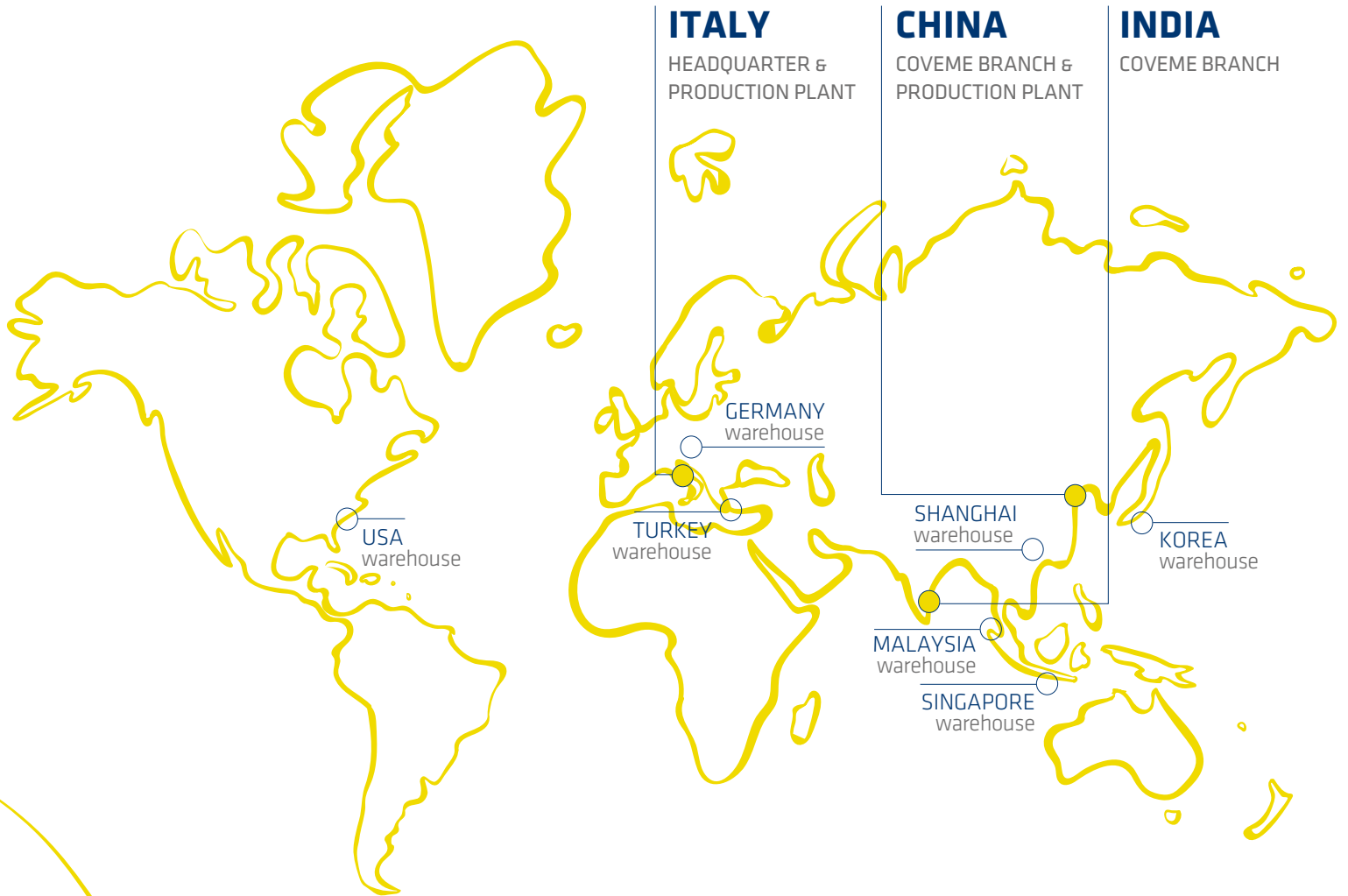
COMMERCIAL

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COVEME TODAY



BIGGEST IN HOUSE 18 GW BACKSHEET PRODUCTION CAPACITY WORLDWIDE



OVER 50 YEARS

of know-how in converting polyester film.



OVER 40 GW OF BACKSHEET

sold worldwide.



Worldwide

COMMERCIAL AND LOGISTIC NETWORK



HIGH TECH R&D LABS

in Europe and Asia.



CERTIFIED QUALITY, SAFETY AND ENVIRONMENTAL

standards.



PRODUCTION

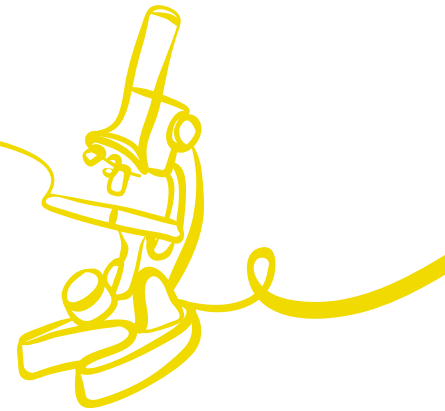
Coveme has been converting polyester film for over 20 years and has successfully developed sophisticated technologies in the production of high-tech films for various industries. Clients' specifications are defined individually and monitored throughout the whole production chain, including suppliers,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



- ✓ **18 GW BACKSHEET** proprietary production capacity
- ✓ **FULLY AUTOMATED** processes
- ✓ **CUSTOMIZED** rolls, sheets and **PUNCHED** formats
- ✓ **14** production lines
- ✓ **LAMINATION, SURFACE TREATMENT, HEAT STABILIZATION, COATING, SLITTING**

RESEARCH & DEVELOPMENT

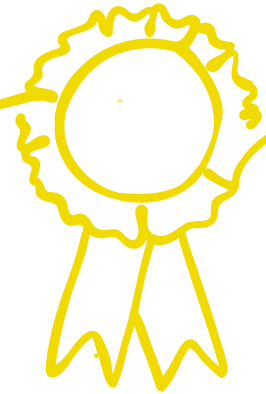
Our laboratories have always been one of the most advanced and strong points of the company, where our technological and operative know how is at complete disposal of the clients' needs. Coveme's research in photovoltaics focuses on the reliability of our products that guarantee our customers higher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



- ✓ Strong academic and industrial **PARTNERSHIPS**
- ✓ Proprietary **R&D LABS** in Europe and Asia.
- ✓ Dedicated **INNOVATION TEAM**
- ✓ **STATE-OF-THE-ART** equipment
- ✓ **CUSTOMIZED RESEARCH PROJECTS** for clients

QUALITY

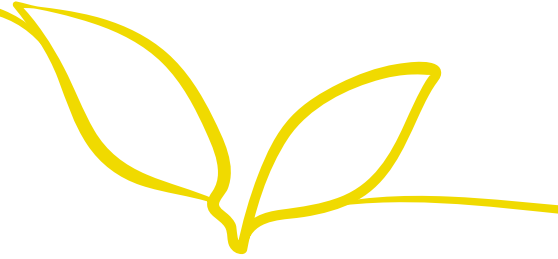
The value for money of a PV investment is strongly influenced by initial cost (investment) and the return of the investment (profit) which depends on performances (energy output), time and costs for maintenance. The right choice of the backsheet material strongly influences all these parameters, which is why Coveme does not compromise in quality.



- ✓ **LONG HISTORY OF HIGH QUALITY** standard backsheet
- ✓ **SEVERE QUALITY INSPECTION** and production control in each critical phase of the process
- ✓ **QUALITY INDICATORS SHOW BETTER PERFORMANCE Y/Y**
- ✓ High quality backsheets means **HIGH ROI**
- ✓ **CONSTANT INVESTMENT** in new machinery - new technology - new process - dedicated and highly skilled personnel

SUSTAINABILITY

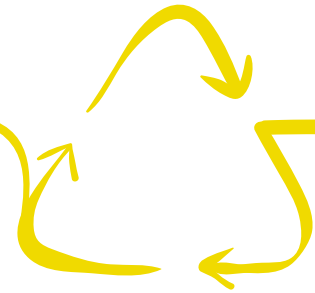
Coveme is well aware of its responsibility in terms of environment and social wellbeing. This is reflected not only in what we produce but also how we produce, which means a lean and green production technology and strategic partnerships with our customers and suppliers. The company continuously optimizes its emission treatments, waste disposal and energy resources and actively pushes forward sustainability and social issues inside and outside the company.



- ✓ **WHITE CERTIFICATES** achievement
- ✓ Active **CARBON FOOTPRINT** balancing
- ✓ Long-standing **SPORTS SPONSORSHIPS**
- ✓ Regular **CHARITY** donations
- ✓ **ROHS** and **REACH** compliance

GREEN PHOTOVOLTAICS

PV panel waste presents an environmental challenge which can be transformed into an economic opportunity if addressed seriously and on time. Upcoming global and restrictive laws might determine PV module components and consider the chemical composition of backsheets for its impact on disposal costs and environment. Coveme continuously invests in End of Life (EOL) and Life Cycle Assessment (LCA) activities with a special focus on backsheets carbon footprint.

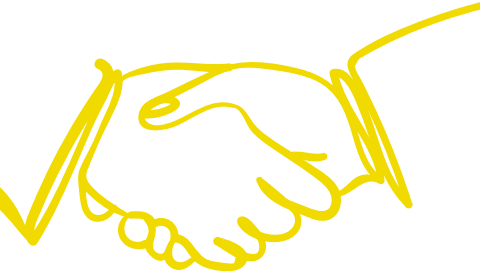


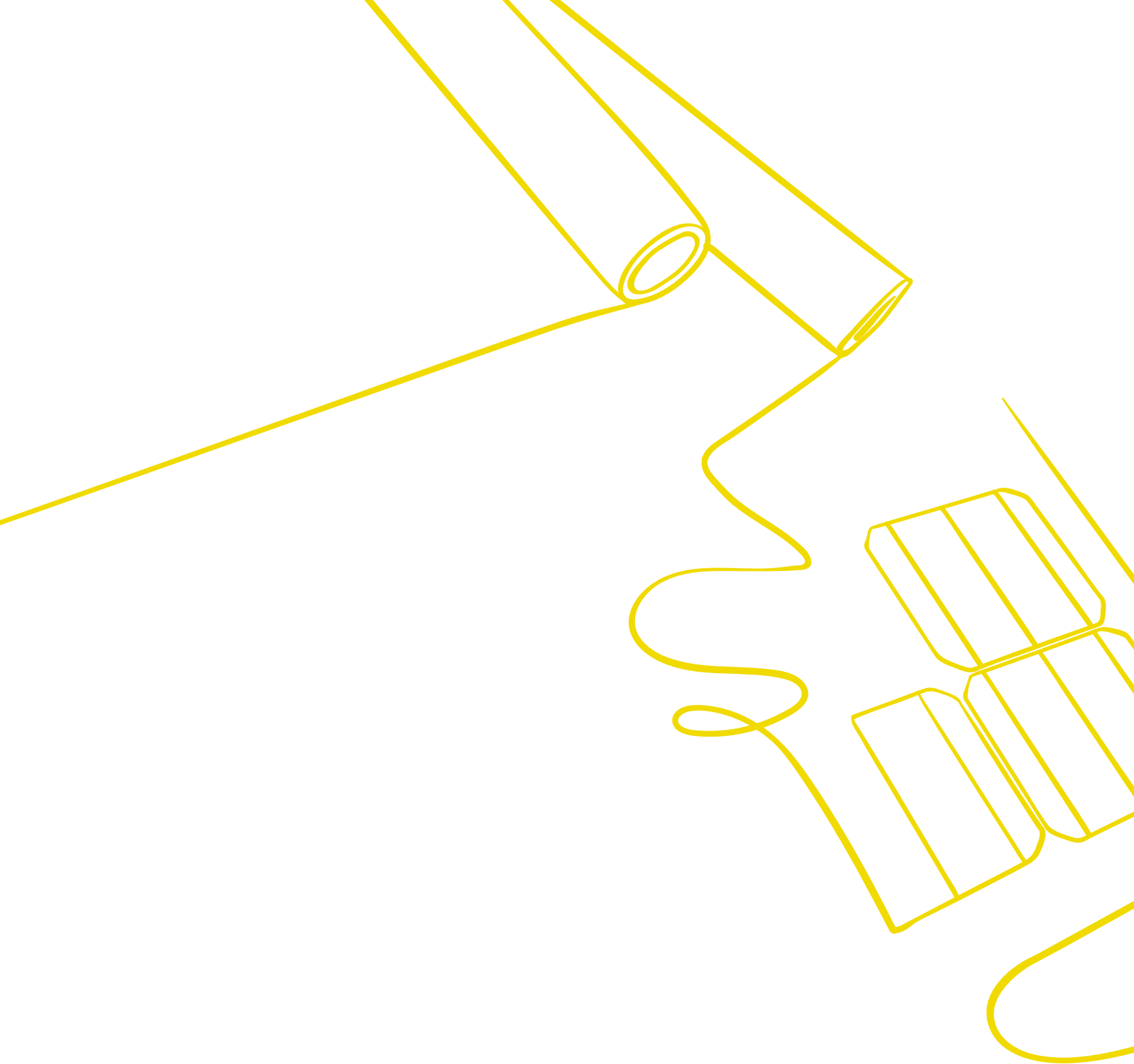
- ✓ Coveme backsheets **100% RECYCLABLE** high grade polyester based
- ✓ **LOWEST CARBON FOOTPRINT** backsheet on the market
- ✓ **NON TOXIC VOC EMISSION** in case of fire
- ✓ In house **R&D ACTIVITY FOR EOL AND LCA** value creation
- ✓ **COMPLIANT WITH ALL EXISTING ECO REGULATIONS**



MEMBERSHIPS

Coveme is honoured to be member of the most prestigious associations in the photovoltaic industry around the globe. With its deep know-how in specialty films and its long-standing presence in the PV market Coveme is pleased to give its contribution to the growth of these associations, believing strongly in the benefit of a continuous cross-fertilization among peers.





PRODUCT RANGE

DYMAT® OVERVIEW

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1000 VDC PET BASED BACKSHEETS

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dyMat® Double Layer Pet

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dyMat® PYE SPV-SPV L

dyMat® SPV L 305

dyMat® PYE 3000-3000 L

dyMat® Black Layer

19

dyMat® Bk PYE

dyMat® Aluminium Layer

21

dyMat® APYE

dyMat® Monolayer

23

dyMat® PYE MONO L

dyMat® PYE MONO LT

dyMat® PYE MONO L PLUS

dyMat® Clr PYE MONO L

1500 VDC PET BASED BACKSHEETS

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dyMat® 1500 VDC

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dyMat® HDPYE SPV L

dyMat® Clr HDPYE L

dyMat® HDPYE L MONO

1000 VDC FLUOROPOLYMER BASED BACKSHEETS

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Tedlar® Based

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dyMat® TsL 50/250

dyMat® TsL 75/150

dyMat® TsL 100/190

PVDF Based

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dyMat® KL 50/250

dyMat® KL 75/150

dyMat® KL 100/190

1500 VDC FLUOROPOLYMER BASED BACKSHEETS

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Tedlar® based

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dyMat® TsL 50/285

dyMat® TsL 50/350

PVDF based

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dyMat® KL 50/250

dyMat® KL 50/285

dyMat® Clr KL 50/285

DYMAT® INNOVATIONS

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dyMat® Bifacial modules

dyMat® Flexible, printed, organic PV

dyMat® CPV - CSP

dyMat® Backcontact technology

dyMat® Retro fitting laminates

DYMAT® ACCESSORIES

44

dyMat® EPE

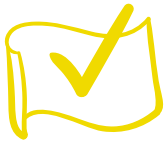
dyMat® E

dyMat® OVERVIEW

BACKSHEETS AND SPECIAL FILMS FOR PV AND SOLAR

FUNCTION

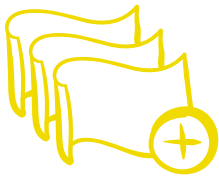
DYMAT® BACKSHEETS ARE EFFICIENT MATERIAL COMBINATIONS FOR HIGHLY PERFORMING MODULES:



- Electrical insulation **UP TO 1500 VDC**
- **STRONG** UV protection
- **HIGH HUMIDITY RESISTANCE**
- **CHEMICAL AND PHYSICAL** durability

ADDED VALUE

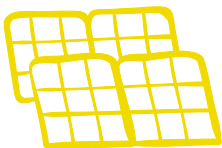
DYMAT® IS A VAST RANGE OF DIFFERENT MATERIALS FOR A TOTALLY CUSTOMIZABLE BACKSHEET:



- **POLYESTER AND FLUORINATED** based backsheets
- **MONO AND DOUBLE LAYER** versions
- **100% RECYCLABLE** (The Green Backsheet)
- **DOUBLE UV PROTECTION** on air side and cell side

APPLICATIONS

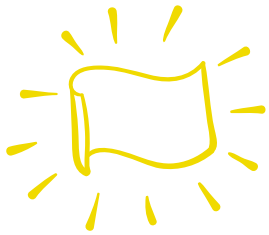
DYMAT® SOLUTIONS SATISFIES SPECIFIC REQUIREMENTS OF ALL KIND OF INSTALLATIONS:



- **RESIDENTIAL ROOFTOP**
- **UTILITY POWER PLANTS**
- **BUILDING INTEGRATED** photovoltaics
- **FLOATING SYSTEMS**
- **COMMERCIAL AND INDUSTRIAL** buildings

NEW FRONTIERS

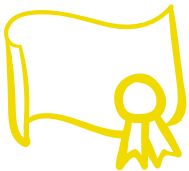
COVEME OFFERS HIGHLY INNOVATIVE FILMS
AND NEW DEVELOPMENTS FOR LEADING-EDGE APPLICATIONS :



- **BIFACIAL** modules
- **CPV** - Concentrator Photovoltaics
- **BACKCONTACT** Technology
- **RETRO-FITTING** PV plants
- **CSP** - Concentrating Solar Power
- **FLEXIBLE, PRINTED**
and **ORGANIC PV**

QUALITY

DYMAT® PRODUCTS ARE CERTIFIED
BY THE WORLD'S MAJOR CERTIFICATION BODIES:

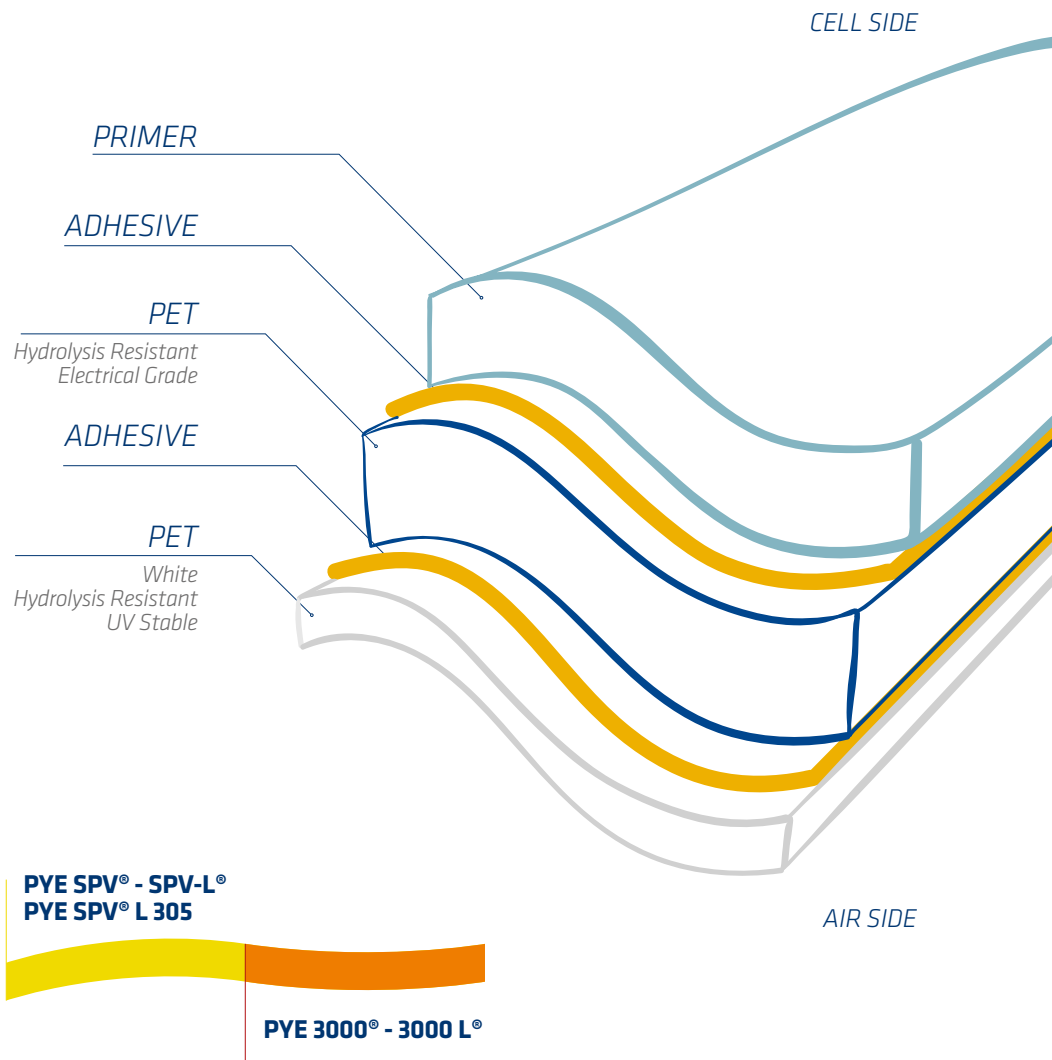
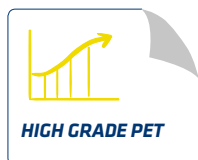


- **UL REGISTERED** 
- **TÜV RHEINLAND CERTIFIED** 
- **JET CERTIFIED** 
- **TÜV SUD CERTIFIED** 
- **CQC CERTIFIED** 

1000 VDC PET BASED BACKSHEETS



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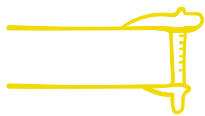
dyMat® DOUBLE LAYER PET

Coveme's most selling backsheet, with over 250 million m² sold worldwide and successfully proven in the market for more than 10 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, the highest resistance to sand abrasion in the market, and an excellent resistance to salt mist, ammonia and chemical solvents corrosion.



Bestseller

PYE SPV® - SPV L®



**Extra Thick
> 300μ**

PYE SPV® L 305



**DHT
> 3000h**

PYE 3000® - 3000L®

Additional upgrades

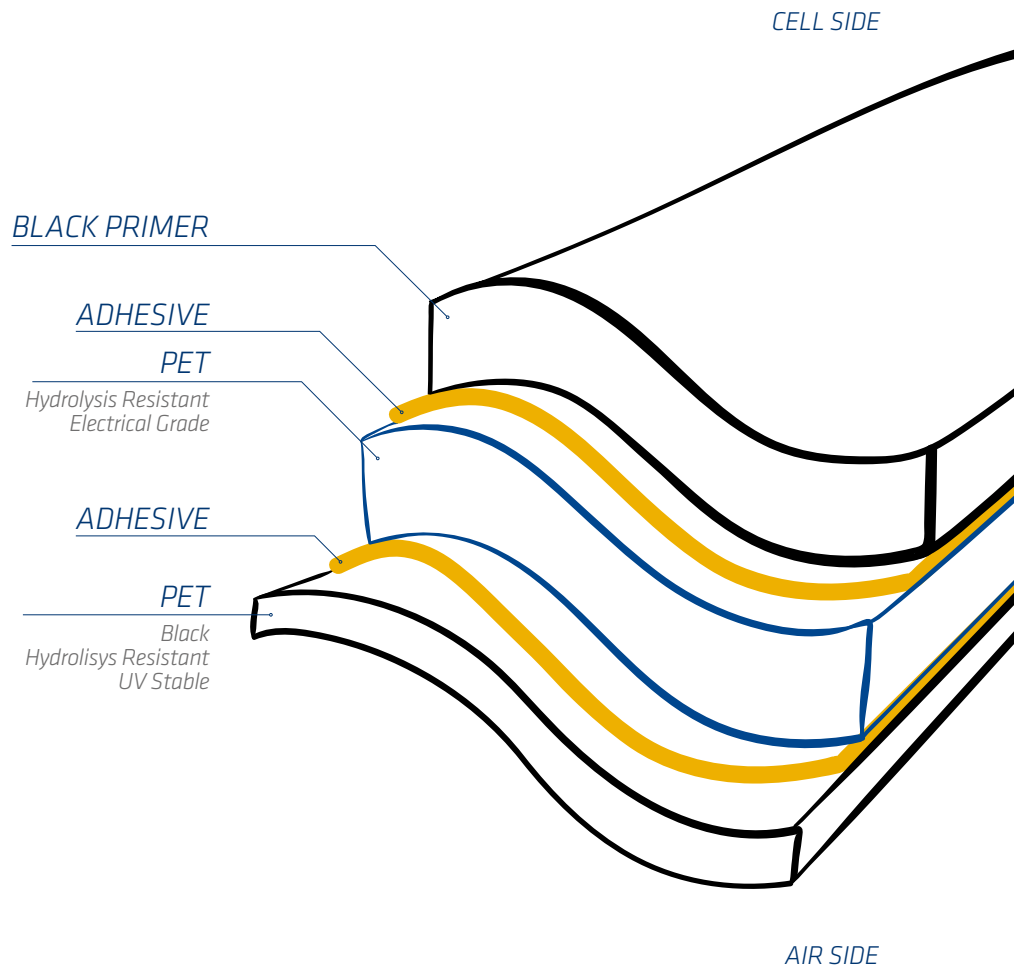
- LO** Special primer for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- LBk** Black primer on cell side



1000 VDC PET BASED BACKSHEETS



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BK PYE SPV L®

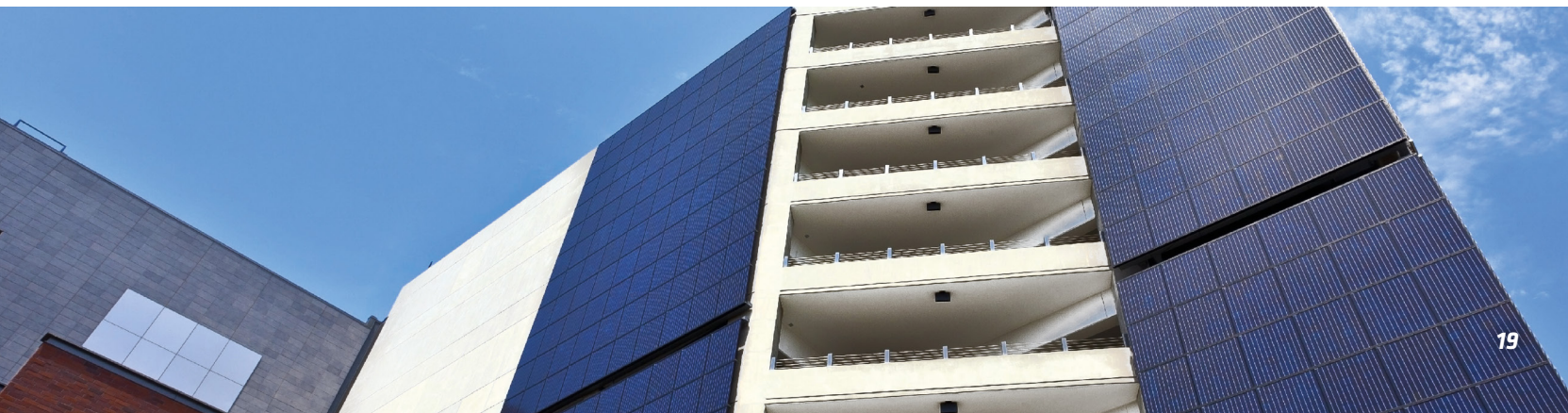
dyMat® BLACK LAYERS

Coveme's black backsheet is the most suitable solution for the best color fit of all-black PV modules, mainly applied for roof-top and facades installations. It features a black primer on the cell side and a black PET on the air side of the backsheet and it is based on 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® Bk PYE series provides a high adhesion strength to all types of encapsulants, the highest resistance to sand abrasion in the market, and an excellent resistance to salt mist, ammonia and chemical solvents corrosion.



Additional upgrades

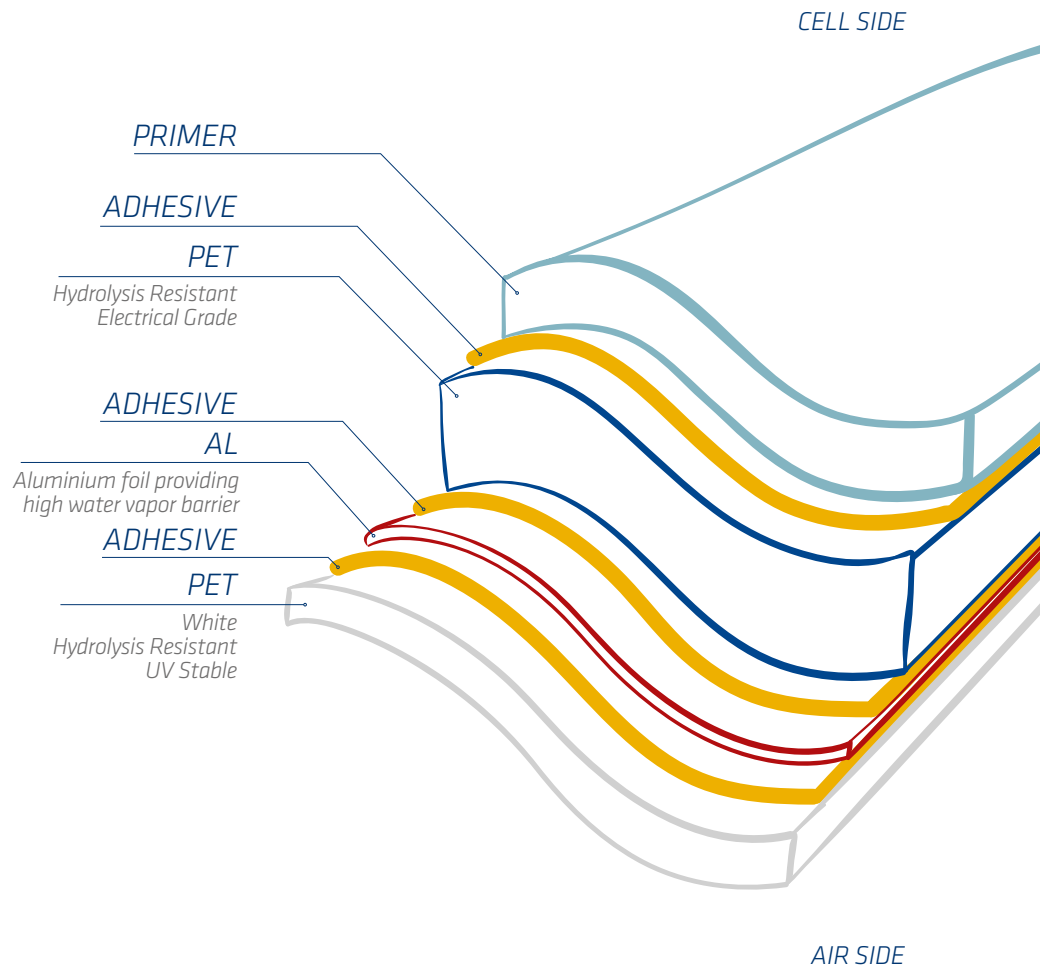
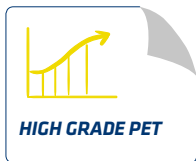
- LO** Special primer for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer



1000 VDC PET BASED BACKSHEETS



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APYE®

dyMat[®] ALUMINIUM LAYER

Coveme's Aluminum backsheet features a special Al layer of thickness variable between 9µm up to 50µm. The special backsheet construction allows an extra low WVTR and a superior moisture protection for humidity sensitive solar cells. Therefore, it is the most suitable solution for thin film (CIGS and a-Si) flexible PV modules and also for c-Si PV modules used in floating installations where high humidity and high temperature can easily deteriorate the module power output.



**Extra Low
WVTR**

APYE[®]

Additional upgrades

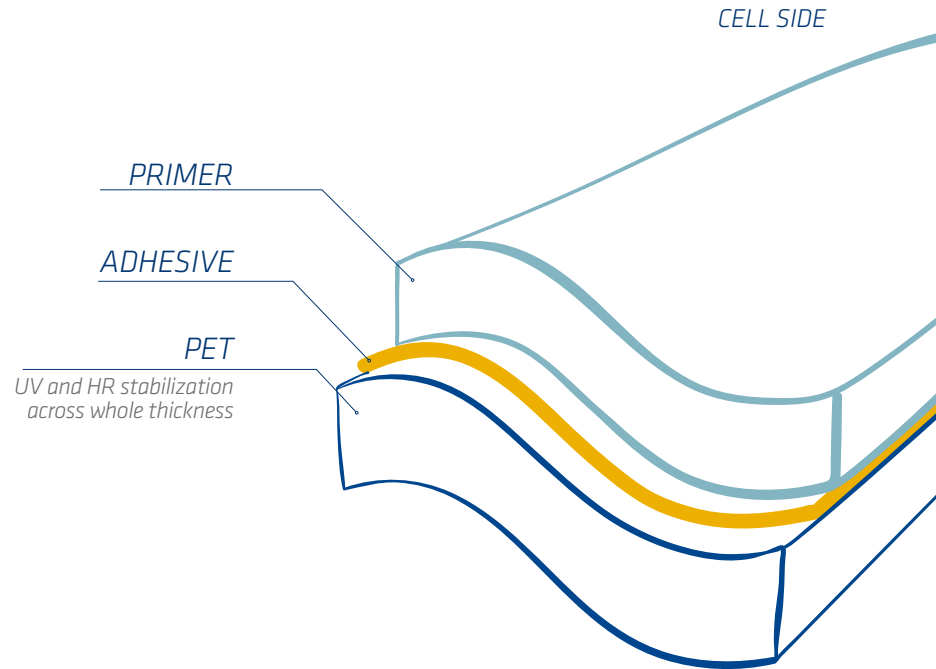
- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- SHR** Super high reflectivity
- Bk** Black polyester on air side and black primer on cell side
- LBk** Black primer on cell side



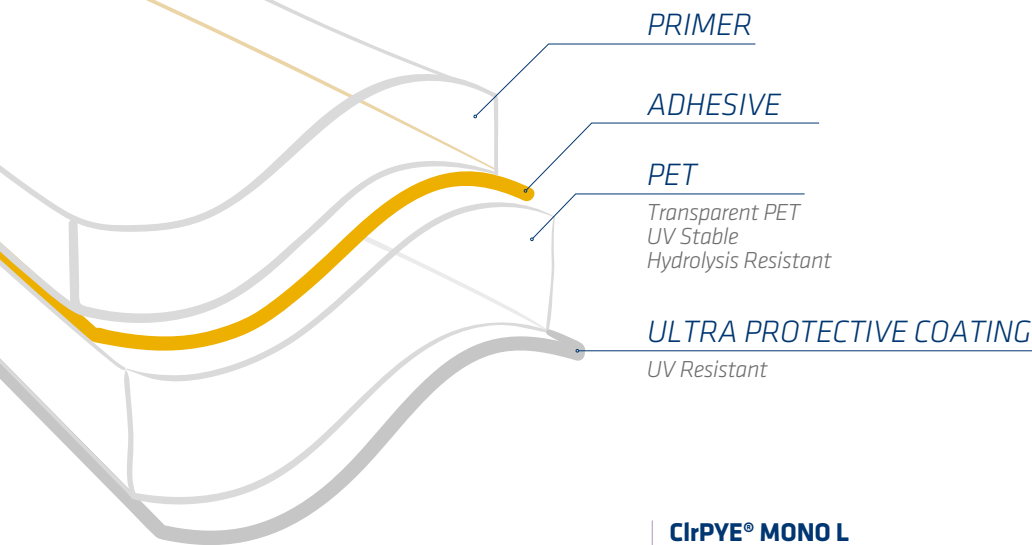
1000 VDC PET BASED BACKSHEETS



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CELL SIDE



PYE® MONO L
PYE® MONO LT
PYE® MONO L PLUS

AIR SIDE

ClrPYE® MONO L

AIR SIDE

dyMat® MONOLAYER PET

This new generation of backsheet from Coveme 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. Available also in transparent version for bifacial modules.



**High
Reflectance**

PYE® MONO L



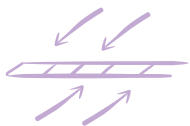
600 VDC

PYE® MONO LT



**Best
Performance
Price/Ratio**

PYE® MONO L PLUS



**Bifacial
Cells**



**Totally
Transparent**

ClrPYE® MONO L

Additional upgrades

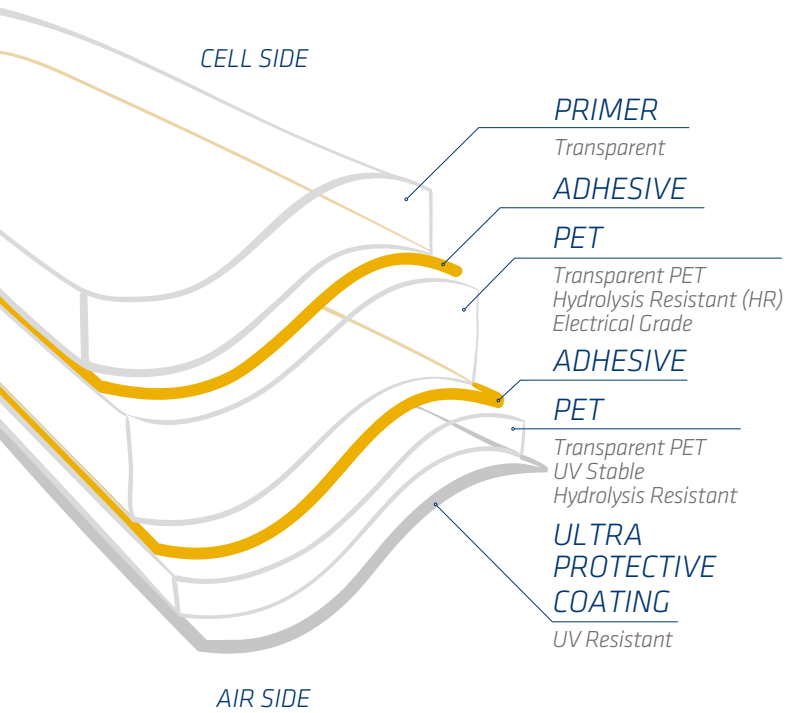
- LO** Special primer for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- Bk** Black polyester on air side and black primer on cell side
- LBk** Black primer on cell side



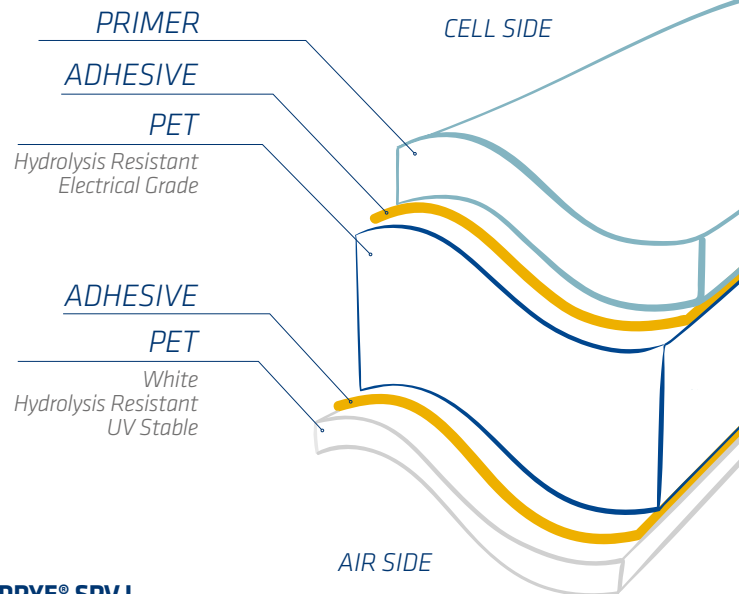
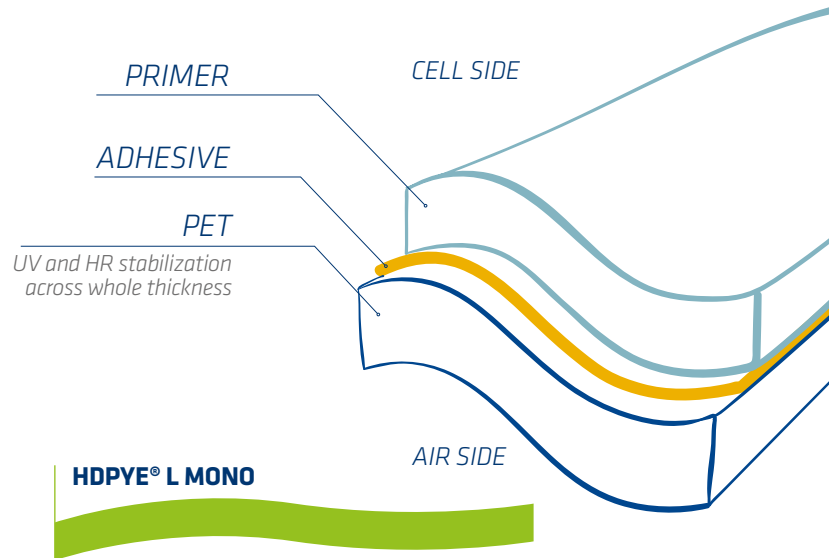
1500 VDC PET BASED BACKSHEETS



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Cir® HDPYE L



dyMat® 1500 VDC

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, the highest resistance to sand abrasion in the market, and an excellent resistance to salt mist, ammonia and chemical solvents corrosion. Available also in transparent version for bifacial modules.



**Extra Low
WVTR**



**1500 VDC
(in oil)**

HDPYE® SPV L

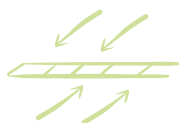


**High
Reflectance**

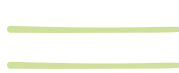


**1500 VDC
(in oil)**

HDPYE® L MONO



**Bifacial
Cells**



**Totally
Transparent**



**1500 VDC
(in oil)**

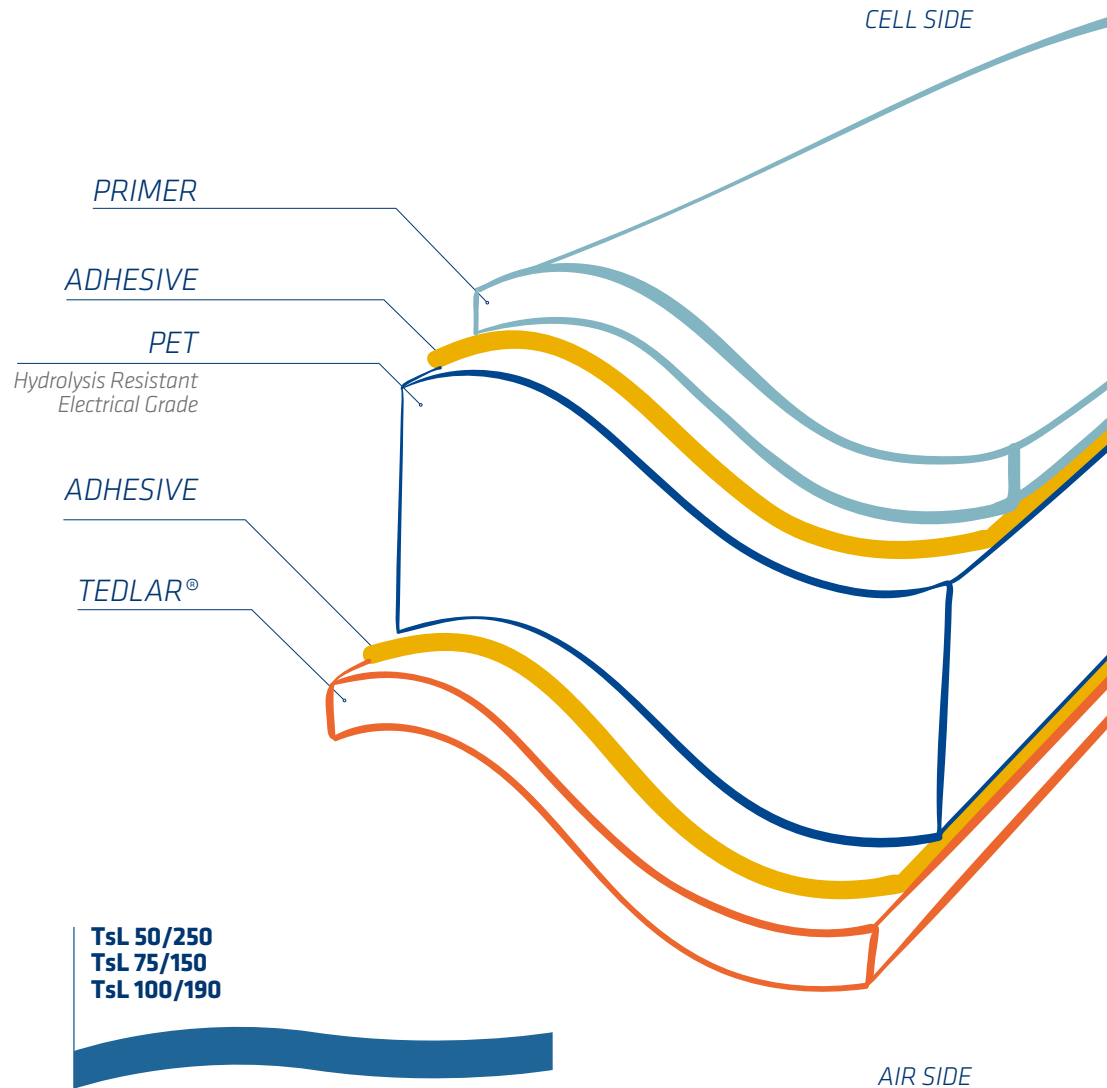
Clr® HDPYE L

Additional upgrades

- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- Bk** Black polyester on air side and black primer on cell side
- LBk** Black primer on cell side

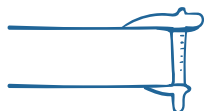


1000 VDC FLUOROPOLYMER BASED BACKSHEETS



TEDLAR[®] BASED

Coveme's Tedlar[®] based backsheet for 1000V features a PVF layer of 25 μ m thickness combined with several options of inner PET thickness ranging from 150 μ m up to 250 μ m. As for the excellent Tedlar[®] weatherability properties, Coveme dyMat[®] TsL series exhibits outstanding resistance to UV irradiation.



*Primer 50 μ m
& PET 250 μ*

TsL 50/250



*Primer 75 μ m
& PET 150 μ*

TsL 75/150



*Primer 100 μ m
& PET 190 μ*

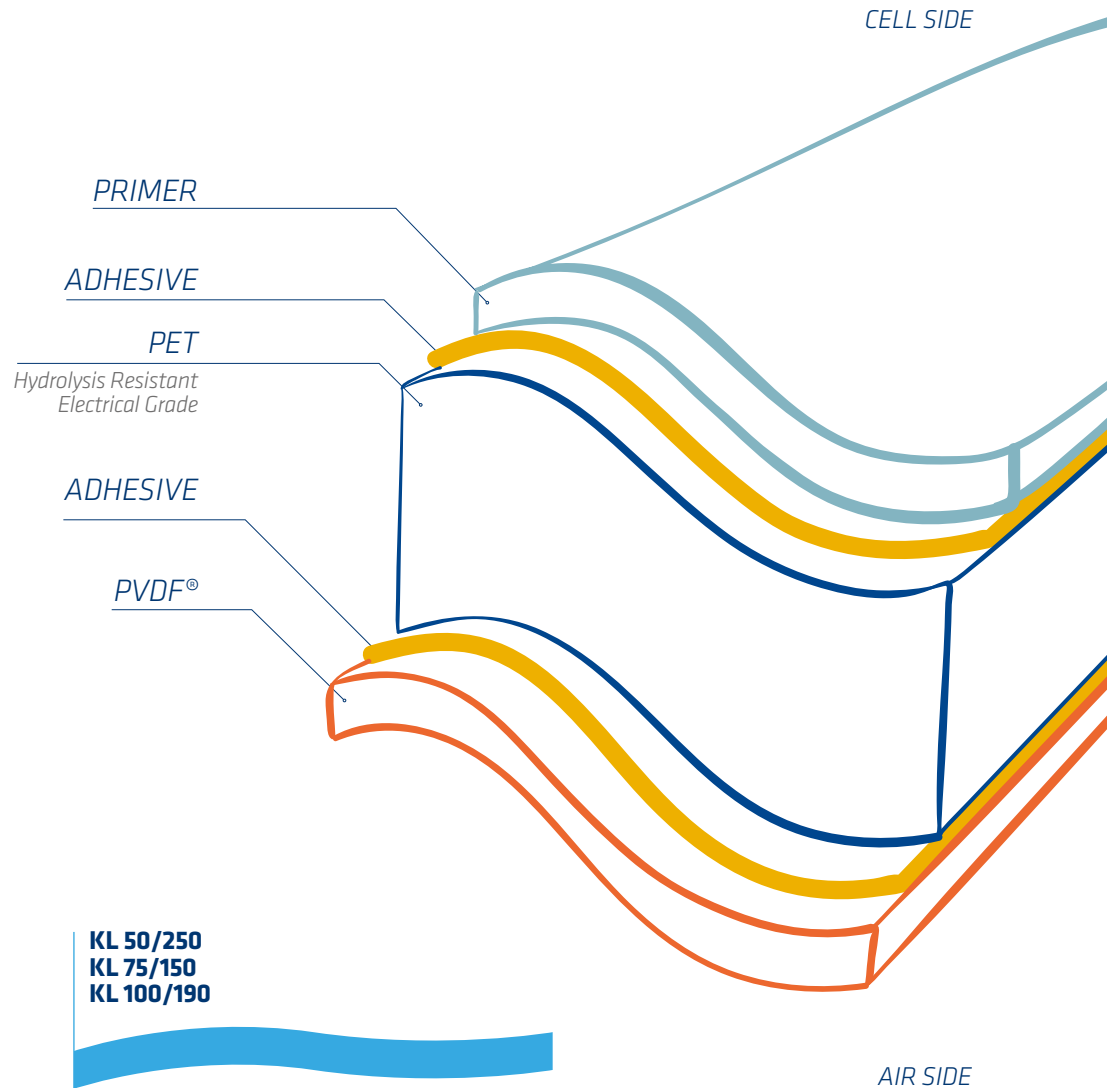
TsL 100/190

Additional upgrades

- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- LBk** Black primer on cell side



1000 VDC FLUOROPOLYMER BASED BACKSHEETS



PVDF[®] BASED

Coveme's PVdF based backsheet for 1000V features a PVdF layer combined with several options of inner PET thickness ranging from 150µm up to 250µm. This Coveme fluoro-based backsheet, dyMat[®] KL series, features a superior resistance to UV irradiation.



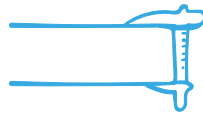
**Primer 50µm
& PET 250µ**

KL 50/250



**Primer 75µm
& PET 150µ**

KL 75/150



**Primer 100µm
& PET 190µ**

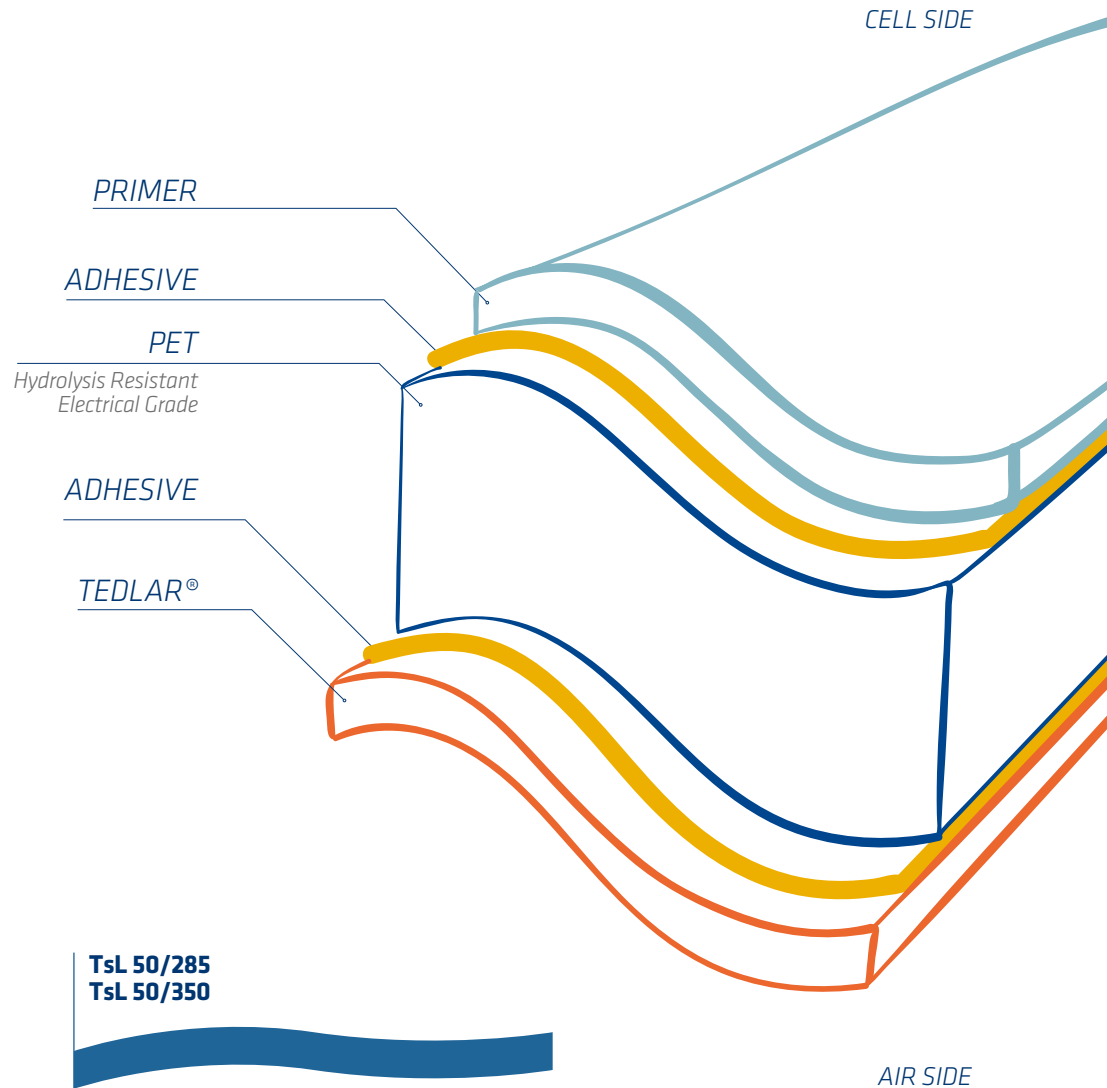
KL 100/190

Additional upgrades

- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- LBk** Black primer on cell side



1500 VDC FLUOROPOLYMER BASED BACKSHEETS



TEDLAR[®] BASED

Coveme's Tedlar[®] based backsheet for 1500V 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.



> 1500 VDC

TsL 50/285



**Extra Thick
PET 350µ**



> 1500 VDC

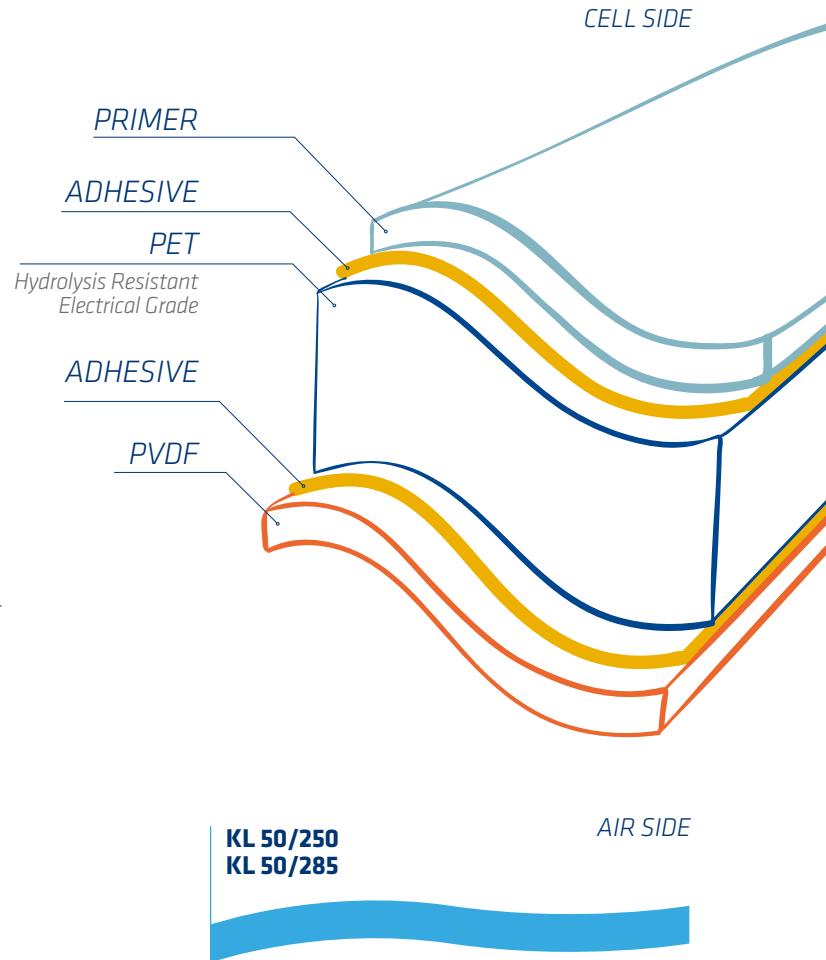
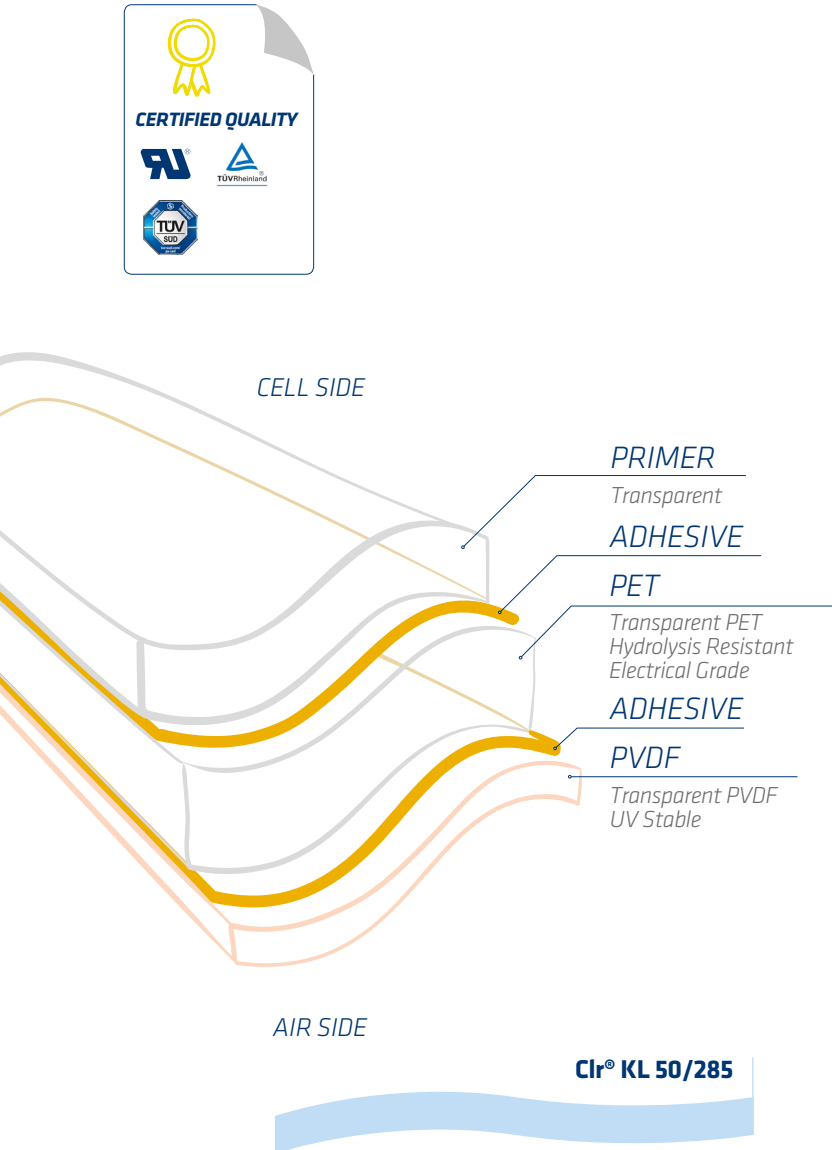
TsL 50/350

Additional upgrades

- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- LBk** Black primer on cell side



1500 VDC FLUOROPOLYMER BASED BACKSHEETS



PVDF[®] BASED

Coveme's PVdF based backsheet for 1500V 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. Additionally, a specific transparent backsheet with fluoro UV resistance and 1500V insulation has been developed for bifacial modules.



>1500
VDC (in oil)

KL 50/250

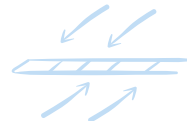


>1500 VDC
NEW IEC
Standard
Compliant

KL 50/285



>1500
VDC



**Bifacial
Cells**



**Totally
Transparent**

Clr[®] KL 50/285

Additional upgrades

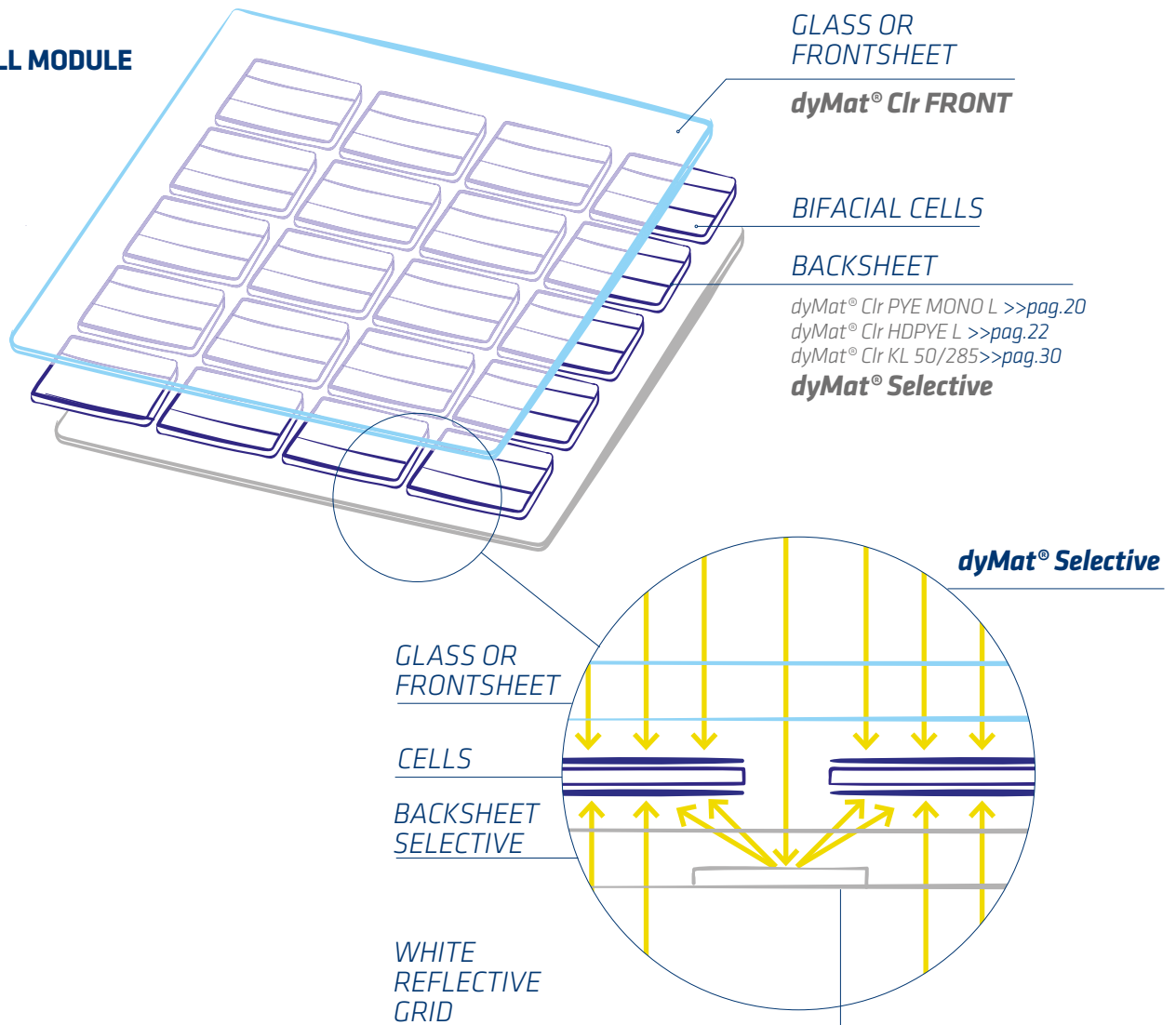
- LO** Special primer for extra UV protection on cell side
- F** Special coating for extra UV protection on cell side
- LD** Low water vapour transmission rate
- LDO** Low water vapour transmission rate + UV stable primer
- SHR** Super high reflectivity
- LBk** Black primer on cell side (not for Clr KL 50/285)



dyMat® INNOVATIONS

Coveme offers innovative solutions for bifacial cell modules with backsheet-glass structure or backsheet-front sheet structure . All these specifically designed dyMat® laminates combine ultra transparency with extra UV resistance.

BIFACIAL CELL MODULE



dyMat® FOR BIFACIAL MODULES

The products dyMat® Clr PYE MONO L, dyMat® Clr HDPYE L, dyMat® Clr KL 50/285 and dyMat® Selective are designed for the back protection of the module, whereas dyMat® Clr FRONT is a frontsheet solution.

Coveme has developed two innovative solutions for bifacial modules, the dyMat® Selective backsheet and the totally transparent frontsheet dyMat® Clr FRONT with a special coating for enhanced UV and scratch resistance. In the case of dyMat® Selective Coveme has set up a new manufacturing technology for the incorporation of a special grid in the backsheet that turns the space in between the cells and the boarder into a highly reflective area. Through the combination of high reflectance from the front and high transparency from the bottom dyMat® Selective improves the modules output significantly.



Higher Output



Reflective Grid



Totally Transparent

dyMat® SELECTIVE



Totally Transparent

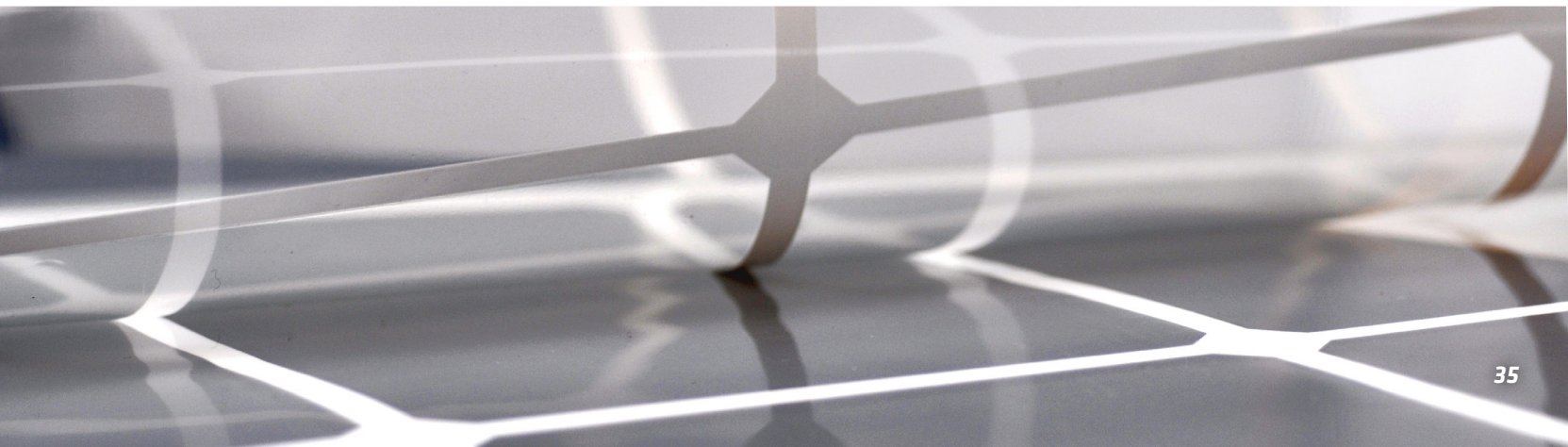


Enhanced UV Resistance



Scratch Resistance

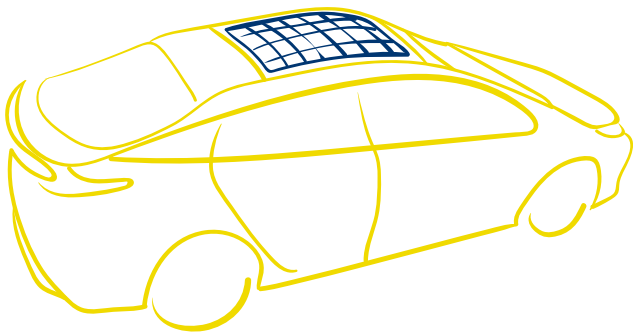
dyMat® Clr FRONT



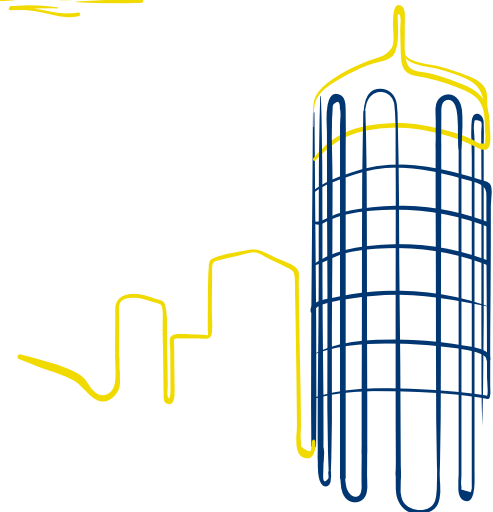
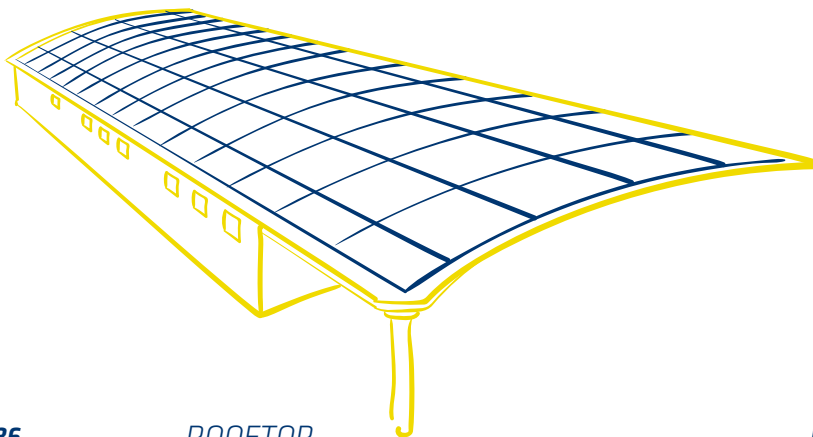
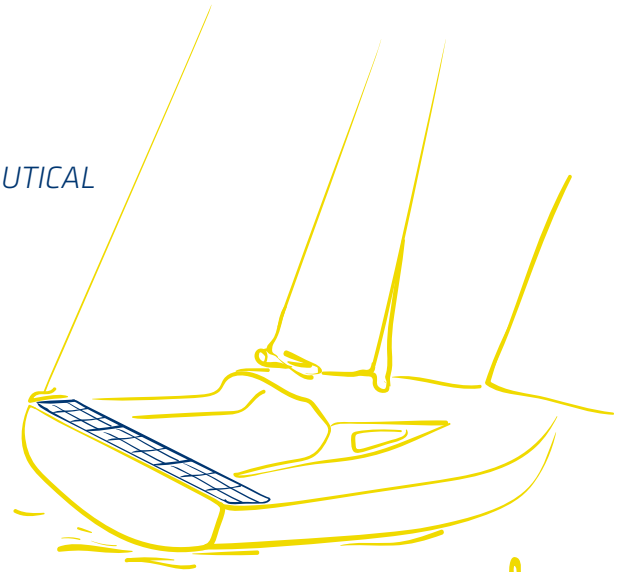
dyMat® INNOVATIONS

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

AUTOMOTIVE



NAUTICAL



dyMat® FOR FLEXIBLE, PRINTED AND ORGANIC PV

dyMat® Clr FRONT 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® PYE 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 Coveme offers its dyMat® PRINT, a heat stabilized and surface treated polyester film suitable for roll to roll and sheet printing processes.

 **Totally
Transparent**

 **Enhanced UV
Resistance**

 **Scratch
Resistance**

dyMat® Clr FRONT

 **Dimensionally
Stable**

 **Printable**

dyMat® PRINT

 **Low
WVTR**

 **PDI
> 1500 VDC**

dyMat® PYE

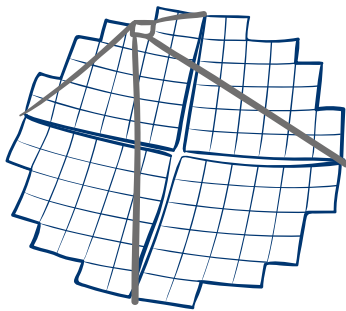


dyMat® INNOVATIONS

Coveme has developed a dyMat® laminate with mirror functions for photovoltaic concentrators and concentrating solar power plants. Compared to standard glass dyMat® Mirror HR that has several advantages in the functioning and for the energy output of these installations:

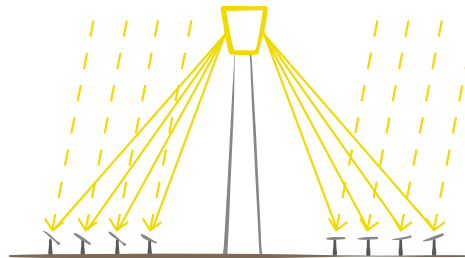
- ✓ Lower weight due to thinner components
- ✓ Flexible material adaptable to any design and application
- ✓ Lower material and installation costs
- ✓ Easier handling and shipping

CONCENTRATOR PHOTOVOLTAICS - CPV

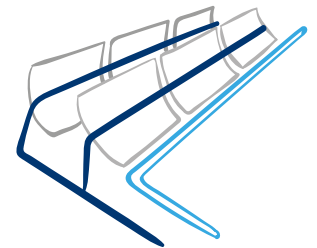


Concentrator Photovoltaics

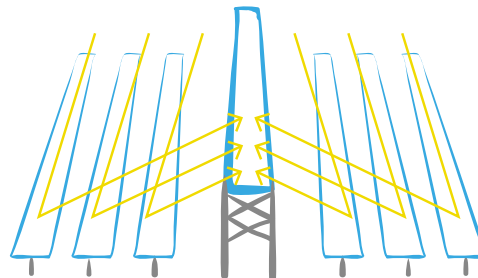
CONCENTRATING SOLAR POWER - CSP



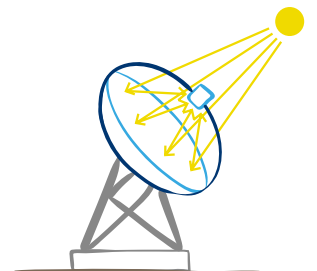
Solar Power Tower



PT - Parabolic Through



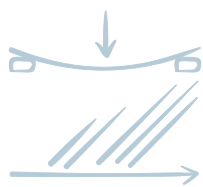
Linear Fresnel Reflector



Parabolic Disc Reflector

dyMat® FOR CONCENTRATOR PHOTOVOLTAICS (CPV) AND CONCENTRATING SOLAR POWER (CSP)

Coverne dyMat Mirror HR is a multilayer substrate, made of two layers of polyester film with a metallization in between. The front side is an ultra clear polyester film coated with a UV resin, the backside is heat sealable, suitable for coil lamination on galvanized steel. The metallized layer guarantees the high performance and durability of solar concentrators. The surface coating provides resistance to abrasion scratch, and has been designed by our engineers for high durability to UV exposure.



**Mechanical
Strength**

**High Durability
to UV**



**Excellent Optical
Performance**



**Scratch
Resistance**

dyMat® Mirror HR



dyMat® INNOVATIONS

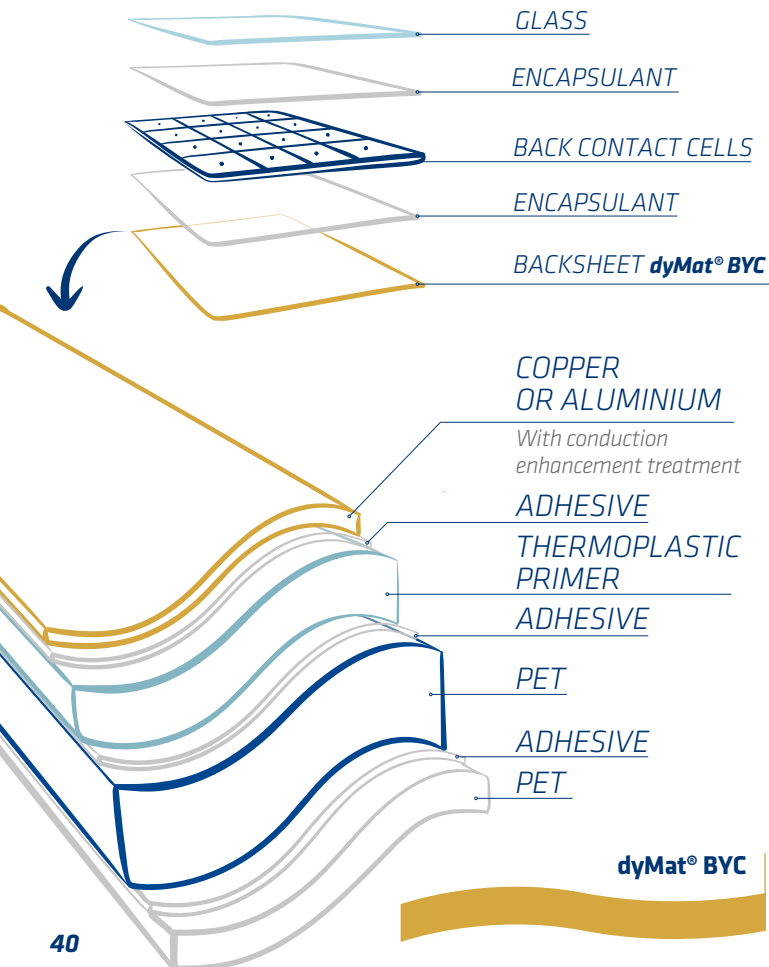
Coveva has been a pioneer in the development of special backsheets with an integrated conductive layer for PV modules made with backcontact PERC-MWT and IBC cells. There are specific solutions for glass-backsheet and glass-glass modules that guarantee a higher manufacturing yield.

✓ High-efficiency cells

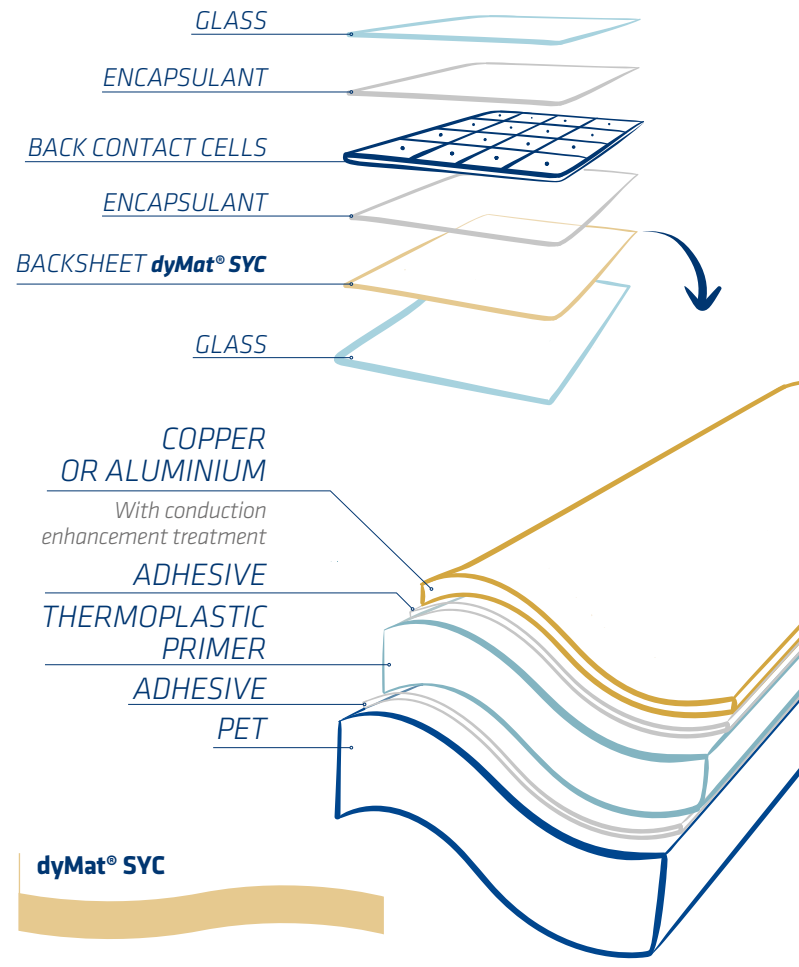
✓ Higher output of the panel

✓ Near to zero cell to module loss

GLASS-BACKSHEET BACKCONTACT MODULE



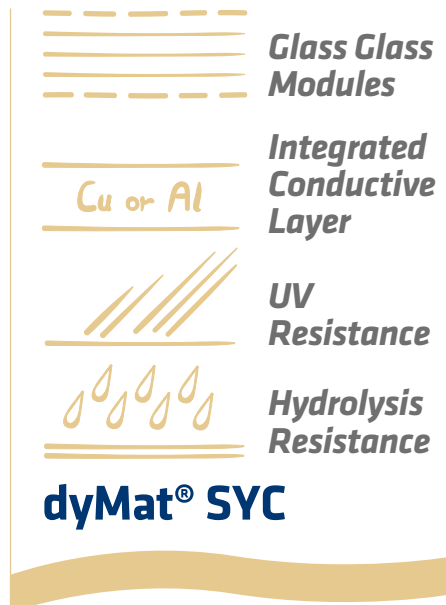
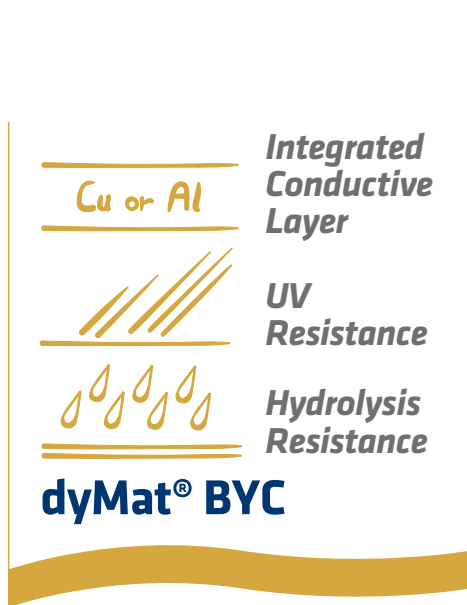
GLASS-GLASS BACKCONTACT MODULE



dyMat[®] FOR BACKCONTACT TECHNOLOGY

dyMat[®] BYC and SYC are innovative backsheets made of high performance polyester, a thermoplastic primer and a copper or aluminium conductive layer for the manufacturing of backcontact photovoltaic modules.

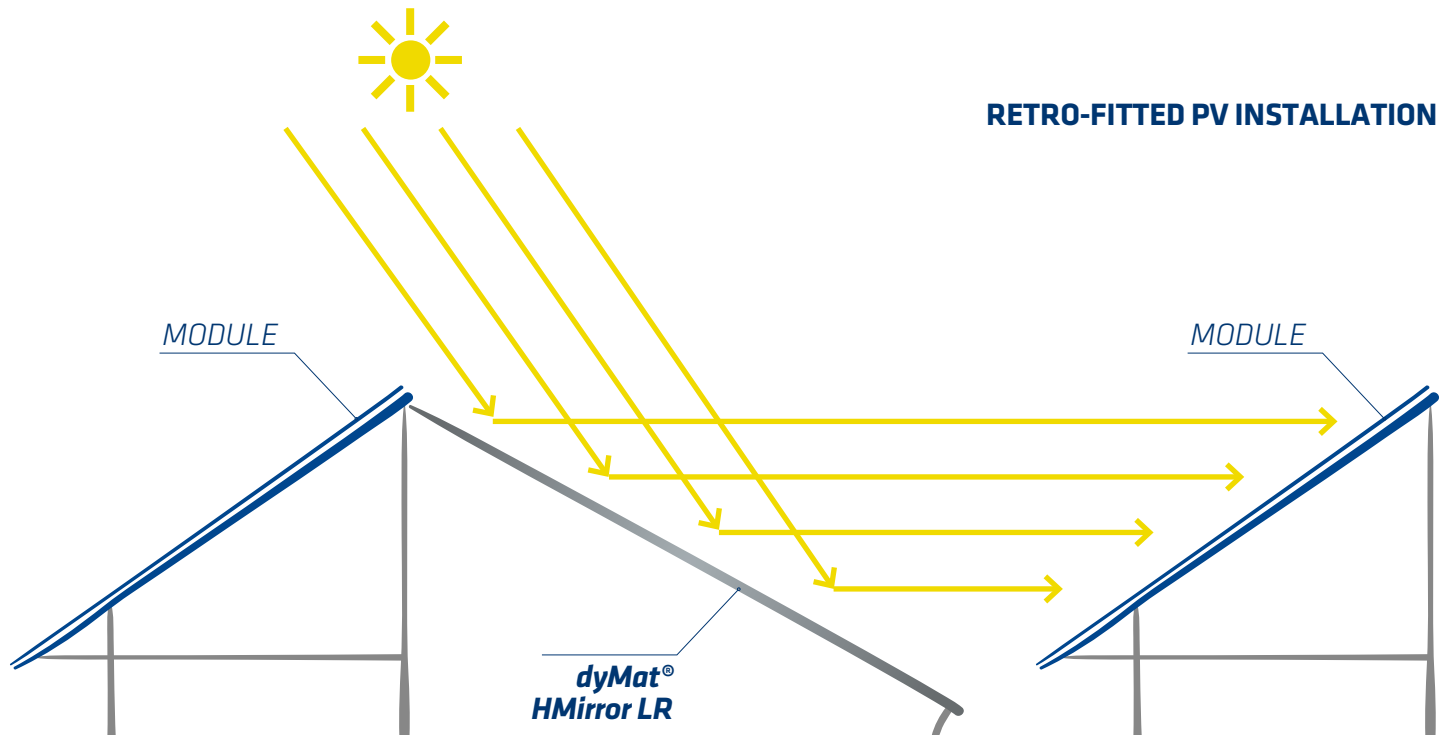
The passivation treated conductive layer is designed to become the electrical circuit for the back connection of the cells, whereas the pet film functions as back protection for the module.



dyMat® INNOVATIONS

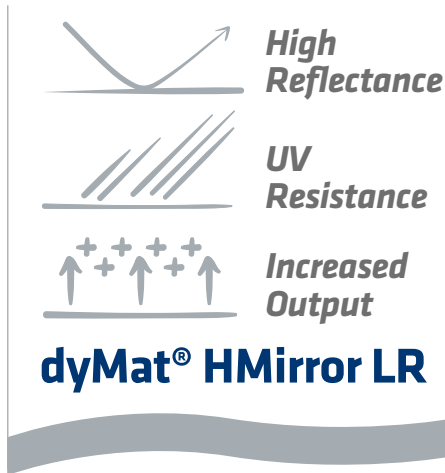
Coveve has developed a highly reflective laminate developed for the retrofitting of PV modules . dyMat® HMirror LR is installed between the module rows and reflects the sun light back onto the module, thus increasing the average energy output of the installation.

- ✓ Significant average energy output gain +10-15%
- ✓ Works within plant peak power
- ✓ Set-up possible in already existing installations
- ✓ No temperature increase on module side



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.



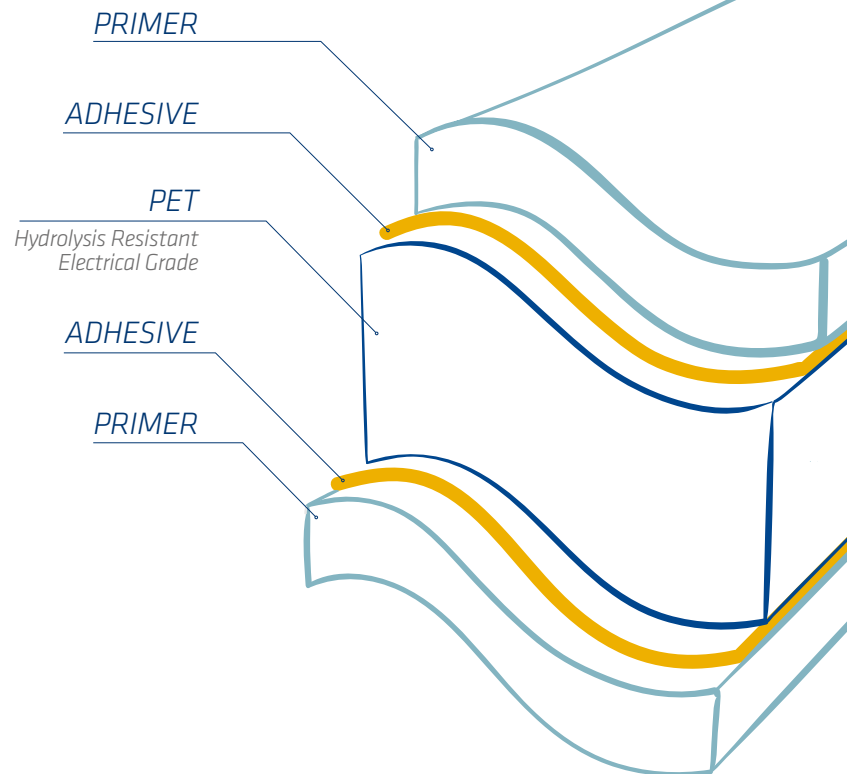
ACCESSORIES

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.



- ✓ **Multilayer component made of PRIMER/PET/PRIMER**
- ✓ **Enhanced adhesion with encapsulant**
- ✓ **White, black and transparent versions available.**



dyMat E[®]

Transparent adhesive tape made of EVA. It is used to fix components such as cells, ribbons etc. during PV module fabrication.

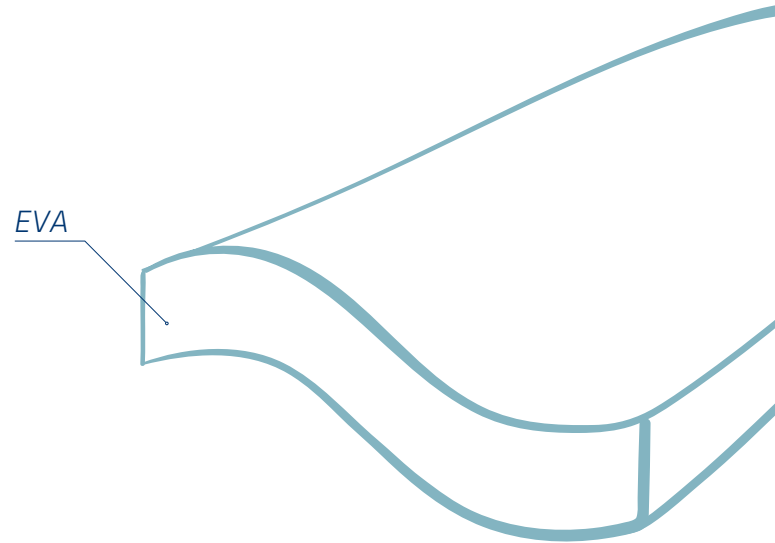
In the lamination process the substrate melts and becomes totally embedded with encapsulating EVA.



✓ **Transparent EVA**

✓ **Modified acrylic emulsion adhesive**

EVA



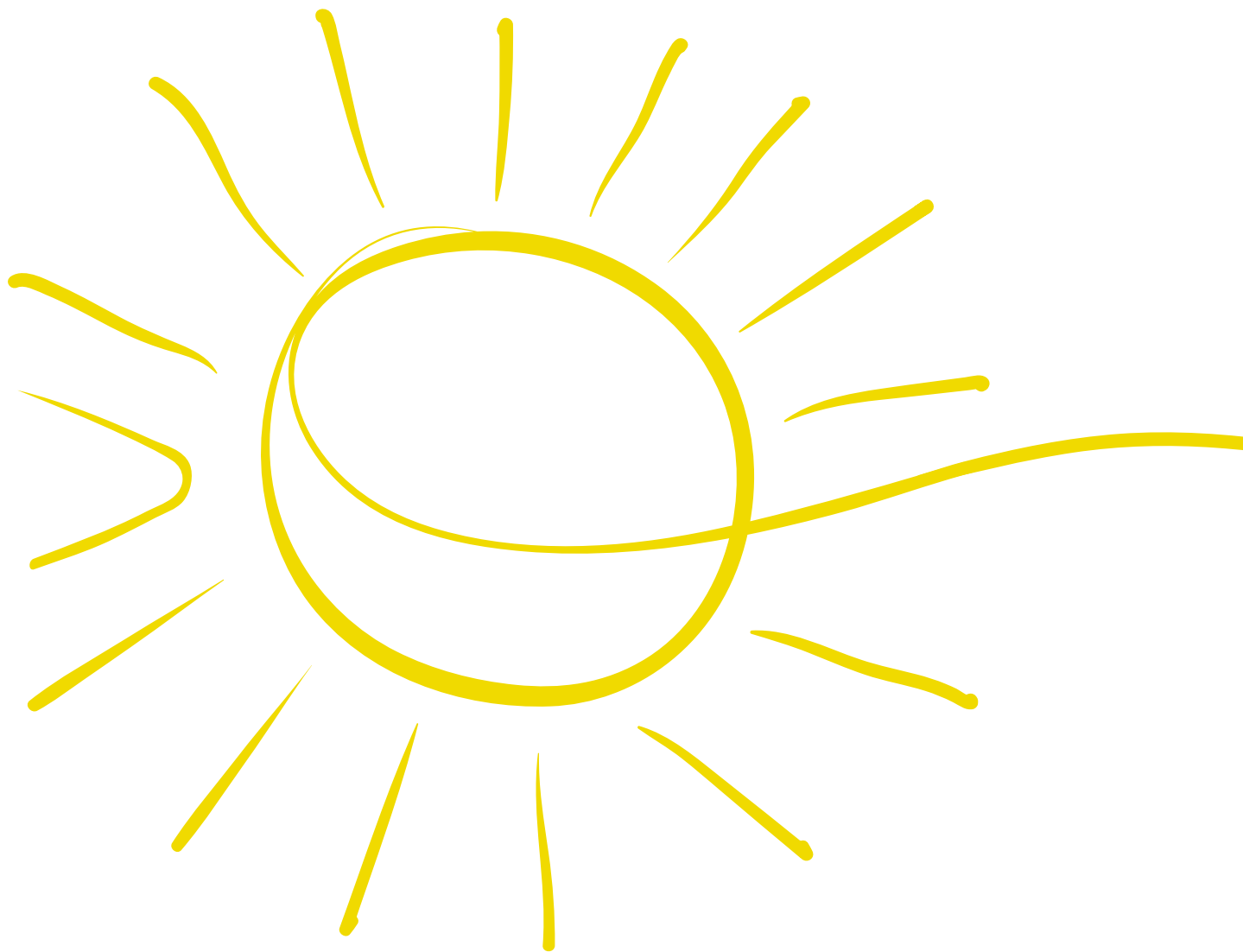
AWARDS & CERTIFICATIONS



- ✓ **Hanwha Solar Supplier Award 2018**
- ✓ **Trina Solar Supplier Award 2017**
- ✓ **Solar World Supplier Award 2015**
- ✓ **Vikram Solar Preferred Partner 2013**

Coveme's is certified ISO 9001 for quality management standards, ISO 14001 for environmental management and OHSAS 18001 for occupational health and safety.







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