

**PHOTOVOLTAIC**

**Black on air side and cell side**

**BACKSHEET FOR PV MODULE PROTECTION**

Thanks to the innovative black PET outer layer dyMat BkPYE® guarantees superior hydrolysis resistance and outstanding UV stability. The long term resistance of the laminate is granted by specific adhesives at improved hydrolysis resistance. The cell side is treated with a special thick primer which provides extremely high bonding to encapsulants. Both air side and cell side are of black colour. The laminate thickness has been designed to provide the best combination of properties in terms of electrical insulation and weatherability.

	<b>Unit</b>	<b>Method</b>	<b>Typical values</b>
PET thickness, air side, black	micron	caliper	50
PET thickness, inner layer, hazy	micron	caliper	125
Primer thickness, black	micron	caliper	100
Laminate thickness	micron	caliper	295 +/- 5%
Unit weight	gr/sqm	10x10 weight	360 +/- 5%
Tensile strength (MD)	N/10 mm	ASTM D-882	300
Tensile strength (TD)	N/10 mm	ASTM D-882	350
Elongation at break (MD)	%	ASTM D-882	115
Elongation at break (TD)	%	ASTM D-882	110
Heat shrinkage (MD) 150°C x 30'	%	ASTM D-1204	< 1,2
Heat shrinkage (TD) 150°C x 30'	%	ASTM D-1204	< 0,6
Layer peel strength	N/10 mm	T - peel (peak value)	> 5,0
EVA adhesion ** (primer coated side vs EVA)	N/10 mm	internal	> 40,0
Moisture barrier (at 38° 90% RH)	gr/sqm x day	ASTM F-1249	2,35
Breakdown voltage	kV	ASTM D-149	> 20
Partial discharge test	VDC	IEC 60664-1	> 1000
Glossiness (air side)	%	Gloss meter 20°	23

**Legend**

\* Other primer colours available upon request

\*\*EVA Corona treated available upon request (adhesion typically > 80N/10mm)

**Notes**

Other thicknesses on request

Cut sheets (sizes, drills etc.) according to customer's specifications

**Shelf life: 2 years**

All values stated are to be considered as Typical values.

The above information is liable to change due to innovation and improvement in the manufacturing process.

We assume no liability for any infringement of any patent, copyright or design on the part of the customer while exploiting the film for different end-uses.

dyMat BkPYE® is TÜV certified  
and UL recognized (UL file n° E313506)  
Coveme is UNI EN ISO 9001-2008  
and ISO 14001 certified

The polyester film employed in the manufacturing  
of dyMat BkPYE® is completely recycable  
dyMat BkPYE® is a Coveme registered trademark



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