

PHOTOVOLTAIC

Super thick

BACKSHEET FOR PV MODULE PROTECTION

Thanks to the high grade PET inner layer of high thickness (250 μ) dyMat HDPYE SPV L[®] guarantees superior moisture barrier, high voltage insulation and helps to hide marked points in the ribbon junctions. The long term resistance of the laminate is granted by specific adhesives at improved hydrolysis resistance. The cell side is treated with a special primer which provides extremely high bonding to encapsulants. This primer can be supplied in different colours. The laminate thickness has been designed to provide the best combination of properties in terms of electrical insulation and weatherability.

	Unit	Method	Typical values
PET thickness, air side, white	micron	caliper	50
PET thickness, inner layer, hazy	micron	caliper	250
Primer thickness	micron	caliper	50
Laminate thickness	micron	caliper	370
Unit weight	gr/sqm	10x10 weight	490
Tensile strength (MD)	N/10 mm	ASTM D-882	> 380
Tensile strength (TD)	N/10 mm	ASTM D-882	> 430
Elongation at break (MD)	%	ASTM D-882	> 65
Elongation at break (TD)	%	ASTM D-882	> 40
Heat shrinkage (MD) 150°C x 30'	%	ASTM D-1204	< 1,2
Heat shrinkage (TD) 150°C x 30'	%	ASTM D-1204	< 0,8
Layer peel strength	N/15 mm	T - peel (peak value)	> 6,0
EVA adhesion (primer coated side vs EVA)	N/10 mm	internal	> 70
Moisture barrier (at 38° 90% RH)	gr/sqm x day	ASTM F-1249	< 1,8
Breakdown voltage	kV	ASTM D-149	> 21
Partial discharge test (in oil)	VDC	IEC 60664-1	> 1500

All the values stated are to be considered as typical experimental values and not specification limits

Legend

* Primer colours available: W (white) B (black). Other colours available upon request

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.

The polyester film employed in the manufacturing of dyMat H2DPYE[®] is completely recyclable

dyMat H2DPYE[®] is a Coveme registered trademark

Coveme is UNI EN ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certified

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