

PHOTOVOLTAIC

BACKSHEET FOR PV MODULE PROTECTION

Laminate based on two layers of high performance polyester film

Thanks to the high grade PET inner layer of elevated thickness (190µ) dyMat® HPYE 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 EVA. This primer can be supplied in different colours* and in transparent finishing. 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	190
Primer thickness	micron	caliper	100
Laminate thickness	micron	caliper	365 +/- 5%
Unit weight	gr/sqm	10x10 weight	460 +/- 5%
Tensile strength (MD)	N/10 mm	ASTM D-882	410
Tensile strength (TD)	N/10 mm	ASTM D-882	430
Elongation at break (MD)	%	ASTM D-882	110
Elongation at break (TD)	%	ASTM D-882	100
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	2,00
Breakdown voltage	kV	ASTM D-149	> 20
Partial discharge test	VDC	IEC 60664-1	> 1100

Legend

* Primer colours available: W (white), BK (black) and BL (blue). Other 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.

Date of revision: April 2010

dyMat® is TÜV certified and UL recognized



UL file n° E313506



dyMat® is a Coveme registered trade mark

Coveme spa is UNI EN ISO 9001-2008 certified

