

PHOTOVOLTAIC

BACKSHEET FOR PV MODULE PROTECTION

Laminate based on two layers, Tedlar®//PET

Thanks to its excellent resistance to the atmospheric agents, its strong barrier to oxygen and humidity, the high voltage insulation and the long term resistance to the hydrolysis of adhesives, dyMat®TE is properly indicated for solar cell module encapsulation.

The PET side is treated with a special thick primer which provides extremely high bonding to EVA. Tedlar®, PET and primer are 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	micron	caliper	175
Tedlar® thickness	micron	caliper	25
Primer thickness	micron	caliper	100
Laminate thickness	micron	caliper	320 +/- 5%
Unit weight	gr/sqm	10x10 weight	367 +/- 5%
Tensile strength (MD)	N/10 mm	ASTM D-882	290
Tensile strength (TD)	N/10 mm	ASTM D-882	310
Elongation at break (MD)	%	ASTM D-882	100
Elongation at break (TD)	%	ASTM D-882	110
Heat shrinkage (MD) 150°C x 30'	%	ASTM D-1204	< 1,5
Heat shrinkage (TD) 150°C x 30'	%	ASTM D-1204	< 0,6
Layer peel strength	N/10 mm	T-peel (peak value) W	> 5
EVA adhesion* (primer coated side vs EVA)	N/10 mm	internal	> 40
Moisture barrier (at 38° 90% RH)	gr/sqm x day	ASTM F-1249	2,0
Breakdown voltage	kV	ASTM D-149	> 13
Partial discharge test	VDC	IEC 60664-1	> 1000

Legend

*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

