

dyMat PYE3000°

PHOTOVOLTAIC

Resists over 3000 h DHT

BACKSHEET FOR PV MODULE PROTECTION

This innovative backsheet has been developed for applications where a superior performance under extreme aging conditions is required. dyMat PYE3000° resists over 3000 hours of Damp Heat Test (DHT)*. 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 PYE3000° is properly indicated for solar cell module protection and insulation. The cell side is treated with a special thick primer which provides extremely high bonding to encapsulants. 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
ET thickness, air side, white	micron	caliper	50
ET thickness, inner layer, hazy	micron	caliper	125
rimer thickness	micron	caliper	100
aminate thickness	micron	caliper	295 +/- 5%
Init weight	gr/sqm	10x10 weight	360 +/- 5%
ensile strength (MD)	N/10 mm	ASTM D-882	290
ensile strength (TD)	N/10 mm	ASTM D-882	310
longation at break (MD)	%	ASTM D-882	110
longation at break (TD)	%	ASTM D-882	100
leat shrinkage (MD) 150°C x 30'	%	ASTM D-1204	< 1,5
leat shrinkage (TD) 150°C x 30'	%	ASTM D-1204	< 0,6
ayer peel strength	N/10 mm	T - peel (peak value)	> 5,0
VA 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	2,40
reakdown voltage	kV	ASTM D-149	> 20
artial discharge test	VDC	IEC 60664-1	>1000
Reflectivity (400-700nm)	0/0	internal	Avg 85

Legend

According to our estimates 80h of PCT equal to approx. 3000h DHT, based on elongation at break measurement criteria.

** Primer colours available: W (white), B (black) and R (regal 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.

dyMat PYE 3000° 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 PYE 3000° is completely recycable















dyMat PYE 3000® is a Coveme registered trademark

^{*} tests realized in laminated modules (glass//Encapsulating EVA//PYE3000), DHT (Damp Heat Test) at 85°C 85% RH (IEC 61215 procedure 10.13) and PCT (Pressure Cooker Test) at 121°C 100% RH (internal procedure):