

PHOTOVOLTAIC

Standard product

BACKSHEET FOR PV MODULE PROTECTION

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 PYE® is properly indicated for the insulation and protection of the solar cell module. 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 |
|--|--------------|-----------------------|----------------|
| PET thickness, air side, white | micron | caliper | 50 |
| PET thickness, inner layer, hazy | micron | caliper | 125 |
| Primer thickness | 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 | 290 |
| Tensile strength (TD) | N/10 mm | ASTM D-882 | 310 |
| 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 | 2,40 |
| Breakdown voltage | kV | ASTM D-149 | > 20 |
| Partial discharge test | VDC | IEC 60664-1 | > 1000 |
| Reflectivity (400-700nm) | % | internal | Avg 85 |

Legend

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

Notes

Other thicknesses on request
Primer colours available: W (white), BK (black) and BL (blue).
Other colours available upon 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® 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® is completely recyclable
dyMat PYE® is a Coveme registered trademark



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