

TROSIFOL presents its next generation of SOLAR PVB films.

The manufacturer of the world's first PVB film specifically for solar applications is presenting a second and improved generation of PVB films at the 24th European Photovoltaic Solar Energy Conference and Exhibition in Hamburg.

At the 24th European Photovoltaic Solar Energy Conference and Exhibition in Hamburg, the Japanese Kuraray Group is presenting its next generation of TROSIFOL PVB films for the encapsulation of solar cells. This second generation (2G) is supplementing the existing product range and not replacing it. Experience with the standard product line has shown that for specialized applications certain parameters can be defined with even greater precision. The striking features of the new TROSIFOL SOLAR 2G film are its significantly higher electrical resistance and much-reduced water absorption – these two characteristics considerably improve the film's resistance to outdoor exposure. Studies have demonstrated that this helps to enhance the quality and efficiency of solar modules and particularly of those containing crystalline high-performance cells. The reduced water absorption allows the solar cells to be positioned closer to the edge of frameless and unsealed glass-glass modules, thus increasing the module's cell density. Similarly, positive effects are achieved when used together with corrosion-insensitive technologies based on CIS, CIGS and CdTe.

When it comes to electrical resistance, the new film is set to boost the market's interest in PVB encapsulation films. Compared to conventional EVA encapsulation films, TROSIFOL SOLAR 2G has considerably higher electrical resistance values in the solar module.

Another unique selling point applies as much to the standard TROSIFOL SOLAR product range as to TROSIFOL SOLAR 2G. Kuraray is the world's only manufacturer of PVB films for use in photovoltaics that are compatible with both lamination processes – the vacuum lamination process and the long-established process familiar from laminated safety glass, i.e. deairing followed by autoclaving.

Overview of the TROSIFOL SOLAR product range

- | TROSIFOL SOLAR R40
- | Colourless, ultra white, thickness 0.76 mm (further film thicknesses available on request)
- | Roll length 250/450 m
- | Max. width: 3,210 mm
- | Unrefrigerated with PE-interleaf at no extra cost
- | Specially developed for the vacuum lamination process and roll lamination (deairing + autoclaving)

- | TROSIFOL SOLAR R100
- | Colourless, thickness 0.76 mm
- | Roll length 200 m
- | Max. width: 3,210 mm
- | Unrefrigerated with PE-interleaf at no extra cost
- | Specially developed for vacuum deairing with subsequent autoclaving

(For further product characteristics, see product brochure.)

Along with its established architectural and automotive product sectors, TROSIFOL is strengthening and expanding photovoltaics as its third source of business. The focus here is on thin-film technology and BIPV (Building-Integrated Photovoltaics).

The entire TROSIFOL product range exhibits the following decisive features:

- Excellent UV-stability and general light stability (no yellowing)
- Very high transparency in the solar module
- Proven long-term stability

21st September 2009

We look forward to seeing you at the 24th European Photovoltaic Solar Energy Conference and Exhibition in Hamburg.
Hall B6, Stand B6/95

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Press contact:

Jörg Theesfeld, Head of Business Development & Marketing
Kuraray Europe GmbH, Division TROSIFOL,
Mülheimer Strasse 26, 53840 Troisdorf, Germany
Phone +49 (0) 22 41 / 2555 202
Fax +49 (0) 22 41 / 2555 299
E-Mail trosifol@kuraray.eu