Heraeus

Leverkusen, Germany 18th March, 2013.

Heraeus Clevios™ PEDOT:PSS Technology Integrated into Printed Organic Solar Cells

Fully roll-to-roll printable organic photovoltaic energy cells (OPV's) have been produced by the Technical University of Denmark, Department of Energy Conservation and Storage (DTU) using printed Clevios™ PEDOT:PSS from Heraeus Conductive Polymers Division rather than traditional vacuum processed Indium Tin Oxide.

Clevios™ PEDOT:PSS is a highly conductive polymer dispersion that allows the deposition of transparent, thin conductive films with sheet resistances of less than 100 Ohm/sq. DTU was able to show that the use of Clevios™ PEDOT:PSS as an electrode in the layer stack contributes to the thin, lightweight and flexible properties of the OPV device. Also the Clevios™ material contributes to the low cost of this roll-to-roll produced energy device.

Dr Wilfied Lövenich of Heraeus said "Flexible Clevios PEDOT:PSS allows additional options, including low cost printing, in the production of OPV devices."

Prof Krebs of DTU said: "The ability to provide flexible roll-to-roll printed energy devices so simply is a major step towards the generation of mass produced organic photovoltaic cells."

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