

News Release



BASF presents its new InkSet 1000SP and a smart packaging demonstrator at LOPEC

- **Printed organic electronics enables flexible displays and circuitry**
- **InkSet 1000SP: all inks and processes you need to manufacture organic thin film transistors**

This year again, BASF New Business is exhibiting at LOPEC trade show in Munich March, 29-30 (booth B0, 518). LOPEC is one of the most important exhibitions and conferences for the Printed Electronics Industry in Europe attracting several thousands of visitors from all over the globe.

Besides the existing product portfolio of solution-processable semiconductor, dielectric and auxiliary material inks which allow to manufacture organic thin film transistors (OTFT) on flexible substrates in a cost-efficient way, BASF presents its new InkSet 1000SP package for fully structured transistors. "InkSet 1000SP is a comprehensive package which includes inks for planarization, contact treatment, semiconductor, gate dielectric and interlayer dielectric, as well as a complete process description for their application. The inks and processes are perfectly adapted to each other." says Dr. Jochen Brill, Head of R&D of BASF's Field Effect Transistor team. "Our customers can directly use our InkSet 1000SP and apply it according to the process description to manufacture their own active matrix backplanes or circuitry, thus saving resources on process development", Brill adds.

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Smart packaging demonstrator

Along with the products, BASF is also showcasing demonstrators highlighting the benefits of flexible and lightweight electronics in various applications. The recent demonstrator built jointly by BASF and InnovationLab, Heidelberg, visualizes the opportunities for Printed Organic Electronics in packaging. An interactive label is an example of a marketing tool for a brand owner that adds a unique feature for consumers. This system can be applied to a variety of packaging, enabling the trend for increased interactivity.

Most parts of the demonstrator are printed: piezoresistive sensors and OTFTs – which means the fabrication is simple and cost efficient. The possibility to integrate printed circuits into continuous roll-to-roll processes, typical for label production, makes printed TFTs the solution of choice for the next generation of smart labels and packaging.

Visit us at LOPEC, booth B0-518.

About BASF New Business

BASF New Business GmbH (BNB) searches out long-term trends and innovative topics in industry and society as well as future markets, analyzes their growth potential and checks whether potential new business areas are suitable for BASF. The activities are focused on the client sectors transportation, building and construction, consumer goods, health & nutrition, electronics, agriculture and energy & resources where new business opportunities outside of the existing businesses of BASF are identified. The most promising topics are built up as new business areas for BASF by the subsidiary. BASF New Business concentrates on new chemical-based materials, technologies and system solutions. BNB also pushes technological progress through the development of new products. To evaluate the technology and the market, BNB works closely with the global research platforms and the divisions of BASF. In addition, BASF New Business cooperates with research institutes, universities, start-ups and industrial partners. Direct investments in start-ups, working in strategically relevant technology fields are undertaken by the subsidiary BASF Venture Capital. More information at www.basf-new-business.com.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 114,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into five segments: Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of about €58 billion in 2016. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.