

### Evonik shows problem-solving strength at Chinaplas 2012

- Supporting the plastics industries towards green manufacturing
- Promoting solutions to challenging problems in automotive, LED lighting, electronics and solar industries
- Chinaplas 2012 will be held at Shanghai New International Expo Center from April 18–21, 2012, Evonik Booth No: A01 in Hall N1

Automotive lightweight construction, LED lightings, electronics and solar technology, where innovative applications are constantly being sought for plastics as the material of the 21st century, are the areas in which Evonik Industries is immersing itself deeply. Evonik will demonstrate its resource efficient and performance enhancing properties of its plastics solutions at the Chinaplas 2012 in Shanghai, China.

“Evonik has an idea of what the future will be like. Plastics are new materials and closely related to all aspects of our daily life. With their wide range of applications, the new materials play a vital role in improving our future life and promoting the continuous development of other industries.” Mr. Gregor Hetzke, Head of the Business Unit Performance Polymers of Evonik Industries said.

At Booth A01 in Hall N1, Evonik will feature a wide range of solutions for the plastics industry which are aligned to the major global trends resource efficiency and globalization.

#### **Broad solutions for automotive lightweight design**

How can cars be designed to be more attractive, more environmentally friendly, more efficient, and safer? These are questions that Evonik Industries will answer at Chinaplas 2012 by showcasing the Lotus lightweight Exige for the first time in China.

Evonik will display a range of products for automotive lightweight design applied in the Lotus lightweight Exige: including: VESTAMID® HT*plus* high-performance polymer, which has been recently used in mass-produced gearshift levers and makes the customized products lighter and brings faster production possibility to our customers; PLEXIGLAS® automotive glazing, which provides 40–50 % weight reduction than conventional glass and makes it of great interest to car manufacturers. Other innovations include Evonik’s crosslinker TAC, which helps to

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improve aging properties of PE heat shrink tubes for cables in the automotive engine room, and Triacetamin (TAA) derivatives, which are the most important precursors of highly efficient UV-stabilizers.

### **Intelligent solutions save energy for lightings**

LED technology is lighting up our lives and proving undreamed of possibilities. LED supersede halogen lamp in terms of effectiveness and product life. But light yield and lifespan depend on the type of manufacturing material used. Evonik provides intelligent solutions to meet more demanding material requirements from lighting customers.

Reflector sockets have a significant influence on the quality of LEDs. Reflector sockets made of VESTAMID® HT*plus* remain significantly whiter even over a long period, it enable the LED to keep shining brightly and make it possible to create even extremely small LEDs due to the good flowability of this material. In addition, Evonik has developed specialty PLEXIGLAS® molding compounds that are perfectly suited for use with LEDs. PLEXIGLAS® LED for edge-lit applications enables slimmer structures and requires smaller fitting depths. PLEXIGLAS® special white grades for backlit applications offer designers unprecedented creative freedom. They can now produce lighting with very little space between the LED and the cover, but without any visible hot spots.

### **Eco solutions for more durable and thin-walled electronics**

Electronic manufacturers are showing a keen focus on developing green manufacturing techniques. Evonik is introducing a series of innovative solutions to meet electronics customers' requirements and help them to increase the reusability and recycling rate of the products. Evonik's VESTAMID® Terra compounds for housing structures are based on renewable resources. Three-dimensional interconnect devices of biobased and eco-friendly VESTAMID® HT*plus* exhibit exactly the combination of properties our customers need.

The sector for consumer electronics remains an exciting one for solutions made of PLEXIGLAS® products. The trend is driven not only by the elegantly slim design of the devices, but also by their excellent performance in energy efficiency. Nowadays, TVs become more flat through LED edge lighting with PLEXIGLAS® light guides. PLEXIGLAS® POQ66, the specialty product from Evonik shows particularly high light

transmission combined with a low refractive index, making it the ideal material for manufacturing light guides.

In addition, in electronics area, TAICROS® is mainly used as crosslinking additives for electron beam crosslinking of PA6 and PBT to improve heat distortion temperature and hot set behavior.

### **Innovative solutions for solar power**

The future of solar energy has only just begun. The most important technologies are photovoltaics and solar thermal energy, which involve converting sunlight into electricity and heat, respectively. Innovative products and solutions from Evonik are used in various application areas of the solar industry and help harness the power of the sun more efficiently.

Evonik has recently launched the new FLEXOSKIN® barrier film, which covers flexible photovoltaic modules to protect them against the adverse effects of wind and weather.

EVA is the industrial standard material for photovoltaic cell encapsulation. In order to get the necessary structural stability the EVA film has to be crosslinked by peroxides during the lamination process. Evonik's crosslinkers TAC and TAICROS® could significantly reduce cycle times and improve solar module quality.

At Chinaplas 2012, Evonik will also display PLEXIGLAS® Solar material, which is especially suitable for the demands of outdoor CPV (concentrating photovoltaics) applications. PLEXIGLAS® Solar provides transmission properties especially adjusted to the spectral response and requirements of solar cells.

*The Performance Polymers Business Unit of Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the trademark ACRYLITE® in the Americas.*

### **About Evonik**

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Evonik benefits specifically from its innovative prowess and integrated technology platforms. Evonik is active in over 100 countries around the world. In fiscal 2011 more than 33,000 employees generated sales of around €14.5 billion and an operating profit (EBITDA) of about €2.8 billion.

Evonik Industries has been producing specialty chemical products in the Greater China region (Mainland China, Hong Kong and Taiwan) since the late 1970's; with wide-ranging trading relations already in place prior to this in the region. Evonik regards Greater China as one of the driving forces of the global economy and we consequently endeavour to grow our business in the region. The company now has around 3,500 employees in the Greater China region, the regional sales reached over 1.2 billion in 2011.

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