

Evonik to show up at China International Composites Industrial Technical Expo 2011

September 5, 2011

- Evonik will display its cutting-edge high performance polymer products and solutions in major fields of electronics, wind power, medical technology, automobile manufacturing, sports equipments, and aeronautical applications
- And we are committed to providing lightweight environment-friendly materials to composite industry
- Evonik's booth number: A610/709, Shanghai World Expo Exhibition And Convention Center, September 7 to 9, 2011

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Evonik will exhibit its cutting-edge high performance polymer products and solutions in major fields of electronics, wind power, medical technology, automobile manufacturing, sports equipment, and aeronautical applications at China International Composites Industrial Technical Expo 2011, which is to be held from September 7 to 9.

“Addressing the market trends, Evonik has continuously contributed to improving the performance of composite materials in order to provide customized solutions to our customers.” said Siamak Djafarian, General Manager of Evonik High Performance Polymers Business Line in Asia Pacific, “We firmly believe that whether a business will be successful or not depends on the sustainability of its solutions. In light of this, we provide our customers with high-quality innovative products and for reducing energy consumption and carbon dioxide emission.”

Adaptable with Plenty of Room for Radar Beams

Evonik has developed ROHACELL® HF material especially for antenna covers. Since the dielectric properties of ROHACELL® HF are very close to those of air, the PMI-based foam permits the passage of radar beams without any obstacles. Applications range from miniature antennas in cell phones to large fixed ship-based and stationary antenna structures.

Improving the Durability for Wind Power Facilities

ROHACELL® IG product has long been used for building the ribs or shells of wind tower rotor blades. Compared with other polymer foam materials used in wind power facilities, ROHACELL® material is characterized by an

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extremely high strength-to-weight ratio, unsurpassed thermo-mechanical properties, outstanding creep resistance and high temperature resistance, as well as longer service life and optimized resin uptake. ROHACELL® material can guarantee operation reliability and reduce maintenance costs for wind power facilities.

Providing High-Tech Materials for Sports Equipments

The high thermoforming capacity of ROHACELL® foam and its special creep resistance allow for very short production times. With heat and pressure applications, composites with core materials of ROHACELL® and cover layers made of materials such as carbon fiber reinforced plastics (CFRP) result in high-strength, rigid designs with extremely low weight. These materials are ideal for lightweight, yet durable sports equipments, such as cross-country and downhill skis, racing bike wheels, rackets, snowboards and surfboards.

Meeting the High Requirements of Medical Devices Application

Because of its high material strength, ROHACELL® foam requires only a relatively thin cover layer and a low density core to meet the high requirements of X-ray tables and CT beds. The homogenous cell structure of ROHACELL® material and the resulting even surface distribution of resin make it possible to get clear X-ray images for optimal diagnosis and to reduce the unavoidable radiation exposure during the diagnosis process. So far, ROHACELL® has comprehensive applications in X-ray tables, CT beds or mammography plates for diagnostic purposes, stretchers and OR tables in emergency medicine, or in specialty tables and attachments for therapeutic use.

Prompting the Speedy Development of Aerospace

ROHACELL® foam is able to withstand the typical curing temperatures of 180° C used in the aerospace industry up to compressions of 7 bar (depending on density) without significant creep. The high-temperature resistance of the material ensures that the curing pressure remains stable even in the presence of possible exothermal reactions. ROHACELL® foam has been extensively used in the rear pressure bulkheads of A340, A380

and C919, the winglets and ailerons of ARJ-21, the payload fairings, heatshields and booster nose cones of Delta IV series rockets.

Offering Lightweight Design Solution to Automobile Manufacturing

Sandwiched composite structures made of ROHACELL® foam and CFRP can lower the weight of a car body significantly by 60 percent compared to steel parts. This is of particular interest for future urban vehicles or electrical cars, in which reduced weight will significantly contribute to downsizing the power train and improving range. This material has been widely used in car interiors and structure parts.

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Its activities focus on the key megatrends health and nutrition, resource efficiency and globalization. In 2010 about 80 percent of the Group's chemicals sales came from activities where it ranks among the market leaders. Evonik benefits specifically from its innovative prowess and integrated technology platforms. Evonik is active in over 100 countries around the world. In fiscal 2010 more than 34,000 employees generated sales of around €13.3 billion and an operating profit (EBITDA) of about €2.4 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. The Group now has a total of 18 companies and 15 production sites in the Greater China region. Evonik regards Greater China as one of the driving forces of the global economy and we consequently endeavor to grow our business in the region.

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