

## Evonik offers the next generation PEEK Polymer which meets increasing performance demands

Evonik Industries is now unveiling an improved polyether etherketone (PEEK) called VESTAKEEP® Ultimate. The new VESTAKEEP® Ultimate PEEK polymer offers unique properties such as

- a 25% higher impact strength compared to state of the art PEEK Polymer
- enabling to double the lifespan of dynamically stressed moulded components

This technical enhancement facilitates certain high-performance solutions, which may make it the material of choice for PEEK polymer in a vast range of applications:

VESTAKEEP® *Ultimate* exceptional properties provide greater resilience to higher stress exposed components in Automobile and Aircraft industries. For example Sensors or Ball Bearings benefit from the high abrasion resistance.

In addition, used as a sealant material VESTAKEEP® *Ultimate* offers benefits by withstanding high temperatures at depths of several hundred meters for Oil & Gas industry.

VESTAKEEP® *Ultimate* also increases process reliability in semiconductor manufacturing—for example in the production of silicon wafers. This is due to the high temperature resistance of VESTAKEEP® and its particularly low ion content.

VESTAKEEP® *Ultimate* provides advantages not only in applications, but also at the processing level. Its high melt elasticity allows pipes with large diameters to be manufactured more easily, for example.

In introducing the new PEEK, Evonik once again is demonstrating its innovative strength in the field of high-performance plastics. “VESTAKEEP® *Ultimate* shows that there is a long way to go before the crest of the plastics pyramid is reached,” states Dirk Heinrich, Director Business Management VESTAKEEP®. “And development hasn’t even been finished yet: We are continuing to work hard on

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improving our products to support our customers to meet performance requirements”

### **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.

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