

VESTAKEEP® Polymers for Medical Applications Evonik presents its new PEEK grades at MedTec

March 3, 2009

For the first time, Evonik Industries, Essen, Germany, will present its VESTAKEEP® M series for medical applications at MedTec Europe in Stuttgart, March 3 to 5. The series is suitable for short-term body contact. It includes the medium-viscosity grade VESTAKEEP® M2G, the high-viscosity compound VESTAKEEP® M4G, and the powder grade VESTAKEEP® M4P.

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The various biocompatibility tests according the United States Pharmacopoeia, in vivo and in vitro, are conducted by independent qualified laboratories. All test results have been negative.

In general, PEEK is used in medical products to improve their usefulness: lighter weight, more freedom of design, and better functional integration. It is also an inexpensive alternative to metals and other materials. Its performance is distinguished by the biocompatibility, the chemical resistance, the resistance against gamma rays or X-rays, and the X-ray transparency, the outstanding resistance to hot steam sterilization, the high mechanical strength and wear and impact resistances, good electrical insulation properties, and good hydrolysis resistance.

Even though VESTAKEEP® polymers have only recently been used in medical applications, the extensive property profile of the material predestines it for a number of interesting applications, like surgical instruments, endoscopes, applications in the in vitro-diagnostic, orthopedic, spinal, and dental fields, analytical equipment, and medical dosing.

Evonik has been successfully producing and marketing high-performance polymers for more than 40 years, and is highly valued in the market for its experience in application technology. The company has successfully applied its expertise in injection molding, extrusion, compression molding, and CAE (Computer-Aided Engineering) analysis to the VESTAKEEP® compounds, which were introduced into the product portfolio in 2007 and made available to Evonik's newly acquired development

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partners. The collaboration is designed on the basis of a long-term partnership, which also allows for fairly long accreditation periods.

Figure caption:

Because of a combination of mechanical properties and excellent resistances with biocompatibility, VESTAKEEP® polymers are opening up new options in the field of medicine. (Photo: Sebastian Kaulitz / Fotolia.de)



Company information

Evonik Industries is the creative industrial group from Germany which operates in three business areas: Chemicals, Energy and Real Estate. Evonik is a global leader in specialty chemicals, an expert in power generation from hard coal and renewable energies, and one of the largest private residential real estate companies in Germany. Our strengths are creativity, specialization, continuous self-renewal, and reliability. Evonik is active in over 100 countries around the world. In its fiscal year 2007 about 43,000 employees generated sales of about €14.4 billion and an operating profit (EBITDA) of more than €2.2 billion.

Disclaimer

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