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Evonik Industries is the creative industrial group from Germany. Evonik is a global leader in its core business of specialty chemicals. In addition, Evonik is an expert in power generation from hard coal and renewable energies, and one of the largest private residential real estate companies in Germany. The company’s performance is shaped by creativity, specialization, continuous self-renewal, and reliability. Evonik is active in over 100 countries around the world. In its fiscal year 2009 about 39,000 employees generated sales of about €13.1 billion and an operating profit (EBITDA) of about €2.0 billion.
VESTAKEEP® PEEK Polymer Enhanced by experience

Evonik Industries AG is a global leader in specialty chemicals. We have been producing high performance plastics for over 40 years.

Automotive:
For many years, we have maintained a strong presence in the automotive market in all areas of expertise, such as assembly, coating, polymer engineering and reinforcement.

This has resulted in a number of attractive applications for PEEK. Our VESTAKEEP® L 4000 G and VESTAKEEP® 1000 CF 30, for example, are used in applications where high frictional forces or high temperatures prevail.

Aerospace:
As a globally organized company with approved track record with quality assurance we have successfully introduce PEEK molding compounds and PEEK in composite components into aircraft construction. To reduce weight, VESTAKEEP® 2000 P can be used as the matrix in high stiffness composites.

Semiconductors:
The benefits of PEEK are well known in this demanding field. Specialized grades of VESTAKEEP® 2000 and 4000 series can be used in wafer carrier applications due to the excellent abrasion and chemical resistance.

Electrical:
VESTAKEEP® 2000 G is used in electrical applications fulfilling high hydrolysis resistance and long-term thermal stability.

VESTAKEEP® 2000 G is also used for high demanding cable sheeting.

VESTAKEEP® PEEK grades are suitable for all processing methods:

- Compression molding
- Coating
- Composites
- Injection molding
- Extrusion
- Stock shapes

Its excellent surface properties and excellent machining properties make PEEK, e.g. our VESTAKEEP® L 4000 G, suitable for producing semifinished products of any geometry. To manufacture thin-walled and filigree components in particular, we recommend the injection molding process using our VESTAKEEP® 1000 G.

VESTAKEEP® 5000 G possesses an impact strength that is about 20 percent higher than any previously used PEEK grade and can therefore be used even where other PEEK grades fail.

Optimum support through many years of expertise

- Elevated chemical resistance testing
- VICAT softening temperature (methods A+B)
- Coefficient of thermal expansion
- Oxygen index (UL 94 combustibility test)
- Incandescent wire test
- Water absorption (saturation)
- Charpy impact strength
- Comparative tracking index
- Electric strength
- Relative permittivity
- Dissipation factor
- Volume resistivity
- Surface resistivity
- as well as all standard ISO and ASTM tests for physical, mechanical, thermal and electrical properties

High-Quality Guarantee
We are very familiar with different specifications and test regulations in all relevant markets. We provide all resources and information required as part of this service we offer in close cooperation with our customers. This includes access to a variety of test equipment.

We also have various certifications for VESTAKEEP®. These include FDA approvals for use with food and different UL listings. Testing for certifications in medical applications is currently in progress.

Please visit our website www.vestakeep.com for more information!