

Magnetic VESTAMID®

October 24, 2007

- Polyamide 12 as carrier for magnetic materials
- Manufacture of polarized magnets

Marl—Highly complex stators and rotors for electromotors and sensors are manufactured by injection molding from highly filled VESTAMID® polyamide 12 molding compounds of the High Performance Polymers Business Unit of Essen, Germany-based Evonik Industries.

Thermoplast-bonded magnets with highly complex shapes

Magnets are conventionally manufactured by pressure sintering, which does not allow complex geometries. By contrast, magnets with a thermoplastic carrier material can be injection molded into virtually any shape. VESTAMID® polyamide 12 from Evonik is a particularly suitable carrier because of its high break elongation and impact resistance, and good resistance to hydrolysis and chemicals. Water uptake is very low compared with, for example, polyamide 6.

For the fabrication of magnets, VESTAMID® is filled with high proportions of ferrites or neodymium magnetic materials. If external magnetic fields are applied during processing, polarized magnets, known as multipoles, are formed. Simple processing by injection molding allows highly complex stators and rotors to be manufactured with the best price-performance ratio.

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Company information

Evonik Industries AG is the creative industrial group which operates in three highly profitable, promising 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 Industries is active in over 100 countries around the world. In fiscal 2006 around 43,000 employees generated sales of €14.8 billion and operating Profit (EBIT) of over €1.2 billion. Evonik plans to enter the capital market in the first half of 2008.

Disclaimer

In so far as forecasts or expectations are expressed in this press release and where our forward-looking statements concern the future, these forecasts, expectations and statements may involve known or unknown risks and uncertainties. Actual results or developments may vary, depending on changes in the operating environment. Evonik Industries AG assumes no obligation to update the forecasts, expectations or statements contained in this release.

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