

VESTAMID® HT*plus* —A High Performance Polymer as a Substitute for Metal

September 14, 2008

VESTAMID® HT*plus*, a new member of Evonik Industries' VESTAMID® family, has been specially developed as a substitute for metal in classic metal applications. VESTAMID® HT*plus* is a polyphthalamide (PPA) based semicrystalline material that is stable at high temperatures; it offers an excellent price–performance ratio.

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Classic metal parts are increasingly being replaced by parts made of plastic, which have comparable mechanical properties at lower unit cost. In addition to high chemical resistance—as is required, for example, in fuel systems—molded parts made from VESTAMID® HT*plus* offer high dimensional stability and excellent mechanical properties such as rigidity and tensile strength. VESTAMID® HT*plus* is therefore ideally suited for use in classic metal applications, for example, as a base material for pump and filter–system housings. In addition to corrosion resistance, reduced component weight, and the resulting reduction—by up to 50 percent—in component costs, the greater design freedom offers several other advantages.

As a thermoplastic material, VESTAMID® HT*plus* can be economically processed on standard injection molding machines. The finished parts can generally be used without further downstream processing. On the basis of its many years of expertise in the area of extrusion, Evonik's High Performance Polymers Business Line also develops extrusion–grade PPA molding compounds.

In addition to polyphthalamide, Evonik has also been producing polyamide 12, polyamide 612, and polyamide 12 elastomer molding compounds (PEBA) under the VESTAMID® brand name for about 40 years and, more recently, polyamides based on renewable raw materials. Many reputable automotive manufacturers have been using the well–known materials for decades. Evonik is the leading manufacturer of polyamides for multi–layer tubing systems in motor vehicles.

Caption: Due to their excellent mechanical properties, mold parts made from VESTAMID® HT*plus* can replace metal parts.

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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.

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