

Chinaplas, May 18–21, 2009, Guangzhou
Evonik in Hall 11.2, Booth No. G41

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Evonik will launch new specialty engineering plastics at Chinaplas

At Chinaplas in Guangzhou this year Evonik Industries, Germany, will present among others a few new specialty engineering products that are recently included into its product portfolio.

Grace Li

Communications

Tel +8621 6119 1001

Fax +8621 6119 1049

grace.li@evonik.com

Dr. Joy Xia

Marketing Operations

Phone +86 21 61191365

Fax +86 21 61191377

joy.xia@evonik.com

VESTAMID® HT*plus* – a high–performance polymer as a substitute for metal

VESTAMID® HT*plus*, a new member of Evoniks' 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. Evonik has combined high temperature stability, excellent chemical resistance, and outstanding mechanical properties with the flexibility of multiple process technologies: injection molding, extrusion, K&K (plastic–rubber composites) and monofilaments. 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 of up to 50%, the greater design freedom offers several other advantages.

VESTAMID® Terra – group of green polymers from Evonik

With the development of VESTAMID® Terra, Evonik has another new member of its VESTAMID® family: a group of polyamides, for which the monomers are based entirely or partly on renewable raw materials. VESTAMID® Terra is semicrystalline, which is the reason for its high mechanical resistance and chemical stability. It absorbs little water and as a result its mechanical properties and high dimensional stability change little when exposed to fluctuating environmental humidity. The

Evonik Degussa GmbH

High Performance Polymers

45764 Marl

Germany

www.evonik.com/hp

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high melting point of VESTAMID® Terra compounds results in a high heat deflection temperature that can be advantageous for some applications.

VESTAKEEP® – the multi-talent among the high-performance polymers

Evonik has established itself over the last year as an expert partner in the PEEK business. In collaboration with well-known companies in the electronics, automotive, and machinery industries, Evonik has initiated further promising developments using its high-grade VESTAKEEP® compounds in all the usual application segments, and has further strengthened its excellent PEEK team.

Beside VESTAKEEP® powders and granules, the company offers VESTAKEEP® based filaments, films and stockshapes produced and distributed by extremely competent VESTAKEEP® partners that all enjoy a long term experience in the processing of PEEK. Especially in the field of stockshapes, Evonik is in strong collaboration with reputable producers. A wide range of state-of-the-art diameters are available at short notice.

TROGAMID® myCX – the only transparent microcrystalline polyamide

Evonik has optimized and extended its product portfolio for the optical industry with TROGAMID® myCX, the new premium optical TROGAMID® grade. TROGAMID® myCX is the only transparent microcrystalline polyamide on the market. It consists of micro-sized crystals embedded by a unique long-chain aliphatic polyamide and combines the beneficial properties of both, semicrystalline and amorphous resins. This is the reason for TROGAMID® myCX's outstanding chemical and physical properties, which translates into extremely high durability, safety and comfort of the sunglass lenses made from TROGAMID® myCX.

Besides the resin, Evonik offers films based on TROGAMID® myCX. These films are crystal-clear and colorless. Due to their excellent optical properties they can be used for demanding applications like lamination and decoration of optical parts.

More high-efficient products and solutions

In addition to the above mentioned product launches Evonik will present a great amount of its product range for the plastics industry. It offers a wide range of interesting product and technology developments,

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covering a complete portfolio of standard and specialty molding compounds for all injection-molding and extrusion applications.

PLEXIGLAS® , PLEXIMID® and PLEXALLOY® – plastics with high brilliance and transparency

The polymethyl methacrylate (PMMA) products are sold under the PLEXIGLAS®, PLEXIMID® and PLEXALLOY® trademarks. The characteristic properties of PLEXIGLAS® molding compounds such as unsurpassed resistance to UV light and weathering, high brilliance and transparency, colorfastness, surface hardness and scratch resistance, qualify these PMMA molding compounds for a wide variety of applications in growth markets. The most important markets targeted are the automotive industry, electronics and communication, medical technology and the construction and lighting industries.

In cooperation with specialists from the plastics industry and their suppliers, Evonik develops new PLEXIGLAS® products for innovative applications. This joint development work leads to complete, production-stage solutions for end users.

TEGOMER® AntiScratch 100 – makes plastics tough enough

TEGOMER® additives not only increase the scratch resistance of plastic compounds but also reduce the coefficient of friction. This two-in-one concept of performance and process additive has been proven in many applications such as dashboards, bumpers, or door handles.

HIBLACK®, PRINTEX®, SIPERNAT® and ACEMATT®

HIBLACK® and PRINTEX® pigment carbon blacks are used to color polymers, stabilize them against UV radiation, and impart conductivity. They prove their superior performance especially in infrastructure applications (pipes, wires & cables). SIPERNAT® silicas can be used in green house films, ACEMATT® OP278 works as a matting agent on plastic surfaces.

POLYTREND® – no limits in coloration

Evonik's liquid color systems enable highest color flexibility to the plastics industry. With dedicated hardware and a well defined selection of base colors in-house color matching has become realistic and simple. Visit our booth and see our demonstration to experience a quick online color change with our liquid color systems.

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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 2008 about 41,000 employees generated sales of about €15.9 billion and an operating profit (EBITDA) of about €2.2 billion.

Evonik Industries has been producing specialty chemical products in China since the early 1990's, with wide-ranging trading relations already in place prior to this. The Group now has a total of 19 companies and 15 production sites in the region. In fiscal year 2008, 4,000 employees generated sales of over €820 million. Evonik regards China as one of the driving forces of the global economy, and we consequently intend to increase our business in Greater China to around €2 billion in the medium term.

Disclaimer

In so far as forecasts or expectations are expressed in this press release or where our statements concern the future, these forecasts, expectations or statements may involve known or unknown risks and uncertainties. Actual results or developments may vary, depending on changes in the operating environment. Neither Evonik Industries AG nor its group companies assume an obligation to update the forecasts, expectations or statements contained in this release.

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