

PRESS RELEASE

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K 2010

WACKER Showcases Highly Elastic Silicone Elastomers for Engine Mounts

Munich, June 14, 2010 – At the 18th International Trade Fair for Plastics and Rubber (K 2010), WACKER, the Munich-based chemical company, will demonstrate how a new generation of silicone elastomers can be used to master the growing challenges facing the automotive industry. This product innovation, marketed under the name ELASTOSIL® R 101, is highly elastic and shows excellent fatigue resistance. It can thus significantly improve the damping properties of modern engine mounts. Furthermore, its outstanding temperature tolerance renders the product highly reliable over the vehicle's entire lifetime. K 2010 will take place from October 27 to November 3 in Düsseldorf, Germany.

Easily processed by injection molding, ELASTOSIL® R 101 offers a number of advantages over organic polymers. These include excellent low-temperature properties that guarantee flexibility down to -50 °C, and heat stability up to 180 °C, which can be improved further with heat stabilizers. A special plus is that its mechanical and dynamic properties remain constant over a wide temperature range.

By virtue of these properties, the product meets a major concern of engine designers, namely how to make engines and components ever more compact. The fuel consumption of modern cars is being

cut by making continuous reductions to the engine displacement. To ensure that this does not impair performance, combustion temperatures are being increased at the same time. This trend calls for tailor-made materials with a higher silicone content in the engine compartment.

ELASTOSIL® R 101 has been specifically developed for the automotive industry. With a Shore A hardness of 25-65, this new product series has a high rebound resilience that comes close to that of a metallic spring. This elasticity remains constant over the lifetime of the engine. ELASTOSIL® R 101 possesses optimized damping behavior and excellent long term fatigue resistance. Such grades are particularly ideal for applications in engine mounts, where the silicone damps engine vibrations and thus makes for a smooth and stable drive.

The damping principle is based on two components, a "spring" in the guise of the highly elastic ELASTOSIL® R 101 elastomer working in conjunction with a hydraulic fluid. This combination produces optimum damping which effectively uncouples the engine vibrations from the body.

Visit WACKER at K 2010 in Düsseldorf. You'll find us in Hall 06, Booth A10.



At K 2010, WACKER is presenting a new silicone elastomer, ELASTOSIL[®] R 101. The product was developed specifically for engine mounts. It is extremely elastic and shows excellent fatigue resistance. (Photo: Wacker Chemie AG)

Note:

This photo is available for download at:
<http://www.wacker.com/pressreleases>

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The company in brief:

WACKER is a globally-active chemical company with some 15,600 employees and annual sales of around €3.7 billion (2009). WACKER has 26 production sites and over 100 sales offices worldwide.

WACKER SILICONES

Silicone fluids, emulsions, rubber and resins; silanes; pyrogenic silicas; thermoplastic silicone elastomers

WACKER POLYMERS

Polyvinyl acetate and vinyl acetate copolymers in the form of dispersible polymer powders, dispersions and solid resins used as binders for construction chemicals, coatings, adhesives, paints, plasters and nonwovens

WACKER BIOSOLUTIONS

Biotech products such as cyclodextrins, cysteine and biologics, as well as fine chemicals and PVAc solid resins

WACKER POLYSILICON

Polysilicon for the semiconductor and photovoltaics industries

Siltronic

Hyperpure silicon wafers and monocrystals for semiconductor devices