

# Press release

K 2010

Hall 6, Booth B28 (Evonik)

Hall 15, Booth C24 (KraussMaffei)

## CoverForm<sup>®</sup> - Surface for the most stringent requirements

- Chemical-resistant surface with high scratch resistance to withstand extreme stress
- One-step coating of PMMA components

Darmstadt – Instrument covers in motor vehicles, nameplates on household appliances and display screens are exposed to high levels of permanent stress, but are required to show no scratches or traces of wear even after years of service. The system solution CoverForm<sup>®</sup>, which provides an extremely resistant surface, was developed precisely for components like these.

### Coating defies abrasion and chemicals

The surface properties created by CoverForm<sup>®</sup> have passed various laboratory tests with flying colors. The properties tested included wear due to sliding friction, surface damage due to sand (falling abrasive test from a height of 1.6 m) and scratch resistance. The tests showed that scratches, for example, penetrate the CoverForm<sup>®</sup> components to a much smaller depth than comparable PMMA products with conventional scratch-resistant coating, or PC with a polysiloxane coating.

Chemical resistance was also tested by means of the suntan lotion and hand cream test to PV 3964. Even after 24 hours at 80°C with cream applied to the material, there was no change in the scratch resistance and adherence. The surface was not damaged.

The CoverForm® system solution was jointly developed by Evonik and machine builders KraussMaffei. In this process, components made from PLEXIGLAS® of molding compound are directly coated in the injection mold with a solvent-free multi-component reactive system on an acrylate base.

Caption:

Examination of scratch resistance in the Erichsen test impressively proves the mechanical strength of CoverForm® components



Photos are available for download at [www.coverform.com](http://www.coverform.com).

Come and see CoverForm for yourself at K 2010, at the KraussMaffei booth in Hall 15, Booth No. C24

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The Performance Polymers Business Unit of Evonik Industries is a worldwide manufacturer of PMMA products sold under the **PLEXIGLAS®** trademark on the European, Asian, African and Australian continents and under the trademark **ACRYLITE®** in the Americas.

### **About Evonik**

Evonik Industries is the creative industrial group from Germany. In our core business of specialty chemicals, we are a global leader. 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. Our 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.

### **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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### **KraussMaffei company profile**

In terms of sales, KraussMaffei is world market leader in machines and systems for plastics and rubber processing. With its three divisions – Injection Moulding Technology, Extrusion Technology and Reaction Process Machinery – KraussMaffei is a premium partner for the plastics and rubber processing industries worldwide.

The group markets its products under the KraussMaffei, KraussMaffei Berstorff and Netstal brands. The KraussMaffei brand covers the whole spectrum of injection and reaction moulding technology, while the KraussMaffei Berstorff brand stands for successful extrusion solutions. The injection moulding machines of Netstal, our Swiss subsidiary, meet the highest of requirements imposed on process implementation, parts quality and production performance and are mainly used to make highly sophisticated technical and thin-walled plastic parts.

With over 100 years' of expertise and know-how in machinery for plastics and rubber processing, KraussMaffei is today a major technology and process partner for industry. The group offers a wide range of solutions that includes specialized and fully integrated turnkey systems. Headquartered in Munich, the company operates a worldwide network of 140 subsidiaries and sales agencies, and deploys over 570 service technicians, ensuring fast response and closeness to customers everywhere.