

Fakuma 2021, hall B5, booth B5-5401

PLEXIGLAS® molding compounds at Fakuma 2021 – innovative materials for contemporary product design

- Röhme will be presenting the new PLEXIGLAS® Optical HT special molding compound for increased continuous service temperatures, as well as other products for various application areas
- Material development in line with technical innovations
- Highlight at Fakuma 2021: PLEXIGLAS® molding compounds for innovative design of vehicles, luminaires and household appliances

The transition in the automotive industry towards electric vehicles is heralding a change in the design language, just like LEDs did for luminaires. Material manufacturers are adapting to these new conditions and are developing custom materials for the respective applications – and PLEXIGLAS® special molding compounds from Röhme GmbH are a perfect example of this. Between October 12 and 16, the Molding Compounds business unit will be demonstrating how design elements can be combined with a range of functions at the Fakuma 2021 trade fair in Friedrichshafen, in hall B5, booth B5-5401.

“The trade fair is our first large event since the COVID-19 pandemic started,” says Siamak Djafarian, head of the business unit. During this period, contact with customers and partners continued via other channels and some new digital formats. “However, we also have a lot of news to share, which is why we are very much looking forward to meeting our customers and partners face to face once again.”

PLEXIGLAS® molding compounds have proven their worth in many fields of application – from the automotive and lighting industries to the electronics and household appliance sectors. “Based on our decades of experience and development expertise, as well as our enthusiasm for the future, our materials are used time and again to create innovations,” says Djafarian. The brand polymethyl methacrylate (PMMA) from Röhme is an extremely diverse plastic that offers great design freedom and boasts excellent light-guiding properties. At the same time, it impresses with its low weight and easy to mold and process. The material also stands out thanks to its extraordinary UV and weather resistance and its resulting durability. At Fakuma 2021, Röhme will be showcasing the material’s versatile properties and present its extensive portfolio based on various application examples of PLEXIGLAS® molding compounds.

PLEXIGLAS® molding compounds turn taillights into a trademark

The red illuminated arch welcoming visitors to the booth is visible from afar. It reflects a trend in the automotive industry, where large, brand-specific taillights make it easy to recognize a vehicle manufacturer, even from a long distance. These ever-larger design lights are made possible by using different components, such as covers or light guides, made from transparent and light-scattering PLEXIGLAS® molding compounds. These homogeneous light features are realized thanks to transparent and light-diffusing PLEXIGLAS® molding compounds. They offer good light-scattering properties as well as minimal light transmission losses, and are available in a range of formulations depending on the specific application.

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PLEXIGLAS® Optical HT combines high heat deflection temperatures with optical quality

At Fakuma 2021, Röhm will be presenting one of its latest special molding compounds for the first time: PLEXIGLAS® Optical HT. This compound was specially developed for use with high-performance LEDs. Until now, these applications often involved a compromise between high optical quality and heat deflection temperatures. With PLEXIGLAS® Optical HT, a new special molding compound is now available that fulfills both demands. The compound ensures the best possible optical quality even at increased continuous service temperatures, thereby offering the automotive and lighting industries greater leeway for contemporary product designs.

PLEXIMID® TT50 HF, a brand polymethyl methacrylimide (PMMI) from Röhm, is another special molding compound suitable for even greater temperatures. With its increased flow capability, it is ideal for very fine structures and increased reproduction accuracy.

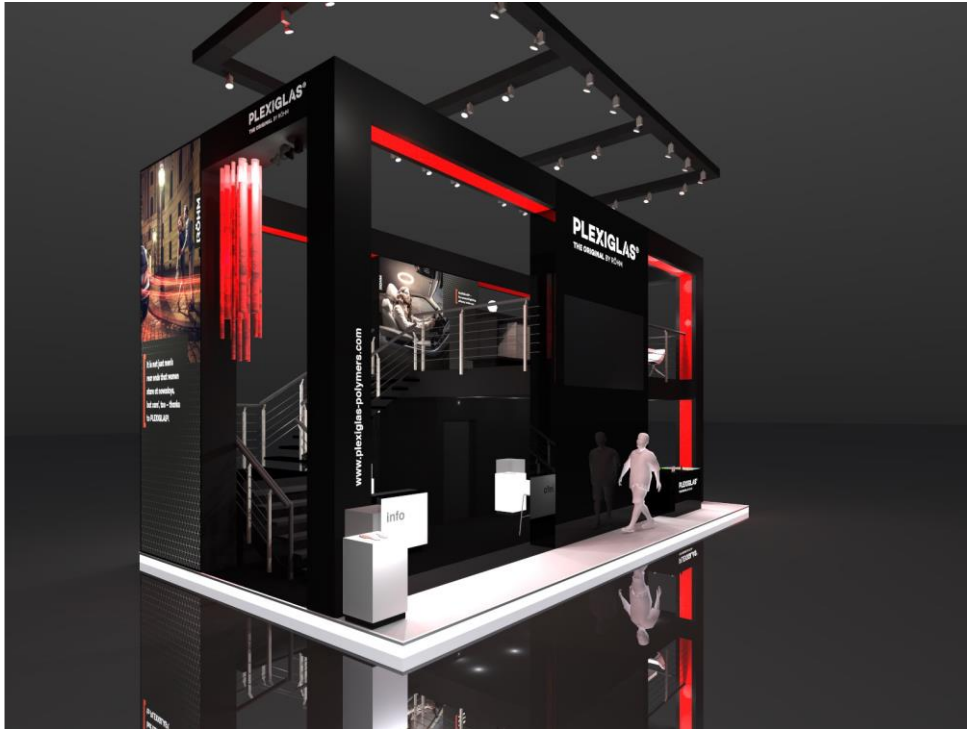
PLEXIGLAS® molding compounds for robust decorative panels on car bodies

The front design of vehicles is also changing, driven by the fact that electric vehicles do not require a cooling air stream, as was necessary in cars with internal combustion engines. As a result, the eye-catching radiator grilles that used to adorn many front bumpers can make way for other design elements. Whether for (illuminated) emblems and lighting elements, or air intakes and sensor covers – the demand for plastic elements is greater than ever before. However, the materials used in applications on the lower car body of the vehicle must be particularly robust. Impact-modified PLEXIGLAS® special molding compounds easily withstand these stresses. For example, PLEXIGLAS® Resist AG 100 with its well-balanced properties is a robust and cost-efficient alternative for many components that would otherwise require coating.

PLEXIGLAS® molding compounds for smart design solutions for household appliances

Connected household appliances via apps, smart home applications or digital solutions for small electronic devices – many manufacturers of household appliances are following the trend of smart design solutions that combine design and functionality. One example of this are information displays that are not visible when the appliance is turned off. When turned on, however, information is shown on the display in true colors. This black panel effect can also be seen on a large screen at the center of the trade fair booth, made possible thanks to PLEXIGLAS® special molding compounds in neutral gray colors. Visitors can learn more about their wide range of properties using the special demonstration unit available at the booth.

PLEXIGLAS® molding compounds are also used to provide a high-quality surface finish and to extend the durability of the product. “PLEXIGLAS® is sustainable by design,” emphasizes Djafarian, “and makes a significant contribution to a considerate use of resources.”



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About Röhm

With 3,500 employees and 15 production sites worldwide, Röhm is one of the leading manufacturers in the methacrylate business. The medium-sized company with branches in Germany, China, the USA, Russia, and South Africa has more than 80 years of experience in methacrylate chemistry and a strong technology platform. Our best-known brands include PLEXIGLAS®, ACRYLITE®, MERACRYL™, DEGALAN®, DEGAROUTE® and CYROLITE®.

Polymethyl methacrylate (PMMA) products from Röhm are sold on the European, Asian, African and Australian continents under the registered trademarks PLEXIGLAS® and PLEXIMID®, and in the Americas under the registered trademarks ACRYLITE® and ACRYMID®.

More information is available at www.roehm.com.