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PLEXIMID® TT70: Crystal-Clear for Headlamp Lenses

- Specialty molding compound with high heat deflection temperature and good optical properties
- High transmission, low yellowness index and low haze even after long-term heat exposure

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Darmstadt – The specialty molding compound PLEXIMID® TT70 (polymethyl methacrylimide) with a high heat deflection temperature is now available for light guides and lenses in modern automotive headlamps. This further development of PMMA durably retains the latter's excellent optical properties even at temperatures up to 150 degrees Celsius, providing headlamp lens manufacturers with a material that can withstand the high heat load of powerful xenon and LED lamps while enabling dynamic styling.

High light transmission, low yellowness index and low haze

At over 90%, the light transmission of PLEXIMID® TT70 remains virtually unchanged even after forty days' storage at 150 degrees Celsius and thus provides constantly high luminous efficiency. The transmittance of the comparative plastic polycarbonate (PC) and its heat-resistant variant PC-HT deteriorates visibly after storage under similar conditions.

Whereas the highest possible transmission is an advantage, the yellowness index should be as low as possible. At the end of the test period, PLEXIMID® TT70 continues to show a very low value. Not so PC-HT and PC: The pronounced yellowing of these materials makes the light appear dull.

The lower the clouding (haze value), the lower the light diffusion losses. PLEXIMID® TT70 provides constantly clear results. In the forty-day long-term exposure test at 150 degrees Celsius, clouding remains at almost the same level and is significantly lower than in comparative products.

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Owing to its stable optical properties upon permanent exposure to heat and its flexible formability, PLEXIMID® TT70 is highly suitable for a variety of components in headlamp lenses, such as lens systems, light-guiding elements for parking and dipped headlights, light guides for turn signal lights and headlamps, and turn signal lamp covers.

Caption:

PLEXIMID® TT70 for highly transparent light-guiding elements in automotive headlamps



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

Company information

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