

News Release



Lights on and full speed ahead

- **High-temperature-resistant Ultrason® E for headlight systems with an elaborate design**
- **New types of material with further enhanced dimensional stability at the Fakuma plastics trade fair in Friedrichshafen, October 17 to 21, 2017**

Hotter, lighter, faster – headlight systems used in the automotive sector are subject to increasingly stringent and in some cases, conflicting requirements. Increased road safety, lower fuel consumption and resistance to high temperatures must be integrated thoughtfully into modern designs. Polyethersulfone (PESU) Ultrason® E from BASF can withstand continuous exposure to temperatures of 180°C and for a brief time, even up to 220°C. The material is lightweight and easily metallized – ideal for use in headlights.

In addition, this high-temperature thermoplastic offers an interesting combination of advanced properties, which match the needs of this application precisely. These include its resistance to environmental influences such as exposure to moisture, and vibrational related stresses.

Integrated design and functionality

The polyethersulfone is known specifically for its high dimensional heat stability which enables the production of complex and delicate geometries – crucial for linking together functionality and low-weight design in a cost-efficient manner. Thanks to its good demoldability, Ultrason® E can easily be removed from the injection mold.

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P308/17e
Sven Heppes
Phone: +49 621 60-58772
sven.heppes@basf.com

Visit us at Fakuma,
Friedrichshafen,
October 17-21, 2017,
Hall B4, Stand 4306

BASF SE
67056 Ludwigshafen
Phone: +49 621 60-0
www.basf.com
Communications Performance
Materials
www.plasticsportal.eu
presse.kontakt@basf.com

New at Fakuma: even more dimensional stability for Ultrason®

Development continues, BASF will showcase recent developments with the high-temperature plastics portfolio next to the headlight reflectors at the Fakuma Plastics Trade Fair in Friedrichshafen/Germany from October 17-21, 2017 at booth 4306 in Hall B4. BASF engineers have optimized Ultrason® E Dimension, a highly filled PESU known for its extraordinary dimensional stability, for automotive and household applications.

On the internet:

www.ultrason.de

About BASF's Performance Materials Division

BASF's Performance Materials division encompasses the entire materials know-how of BASF regarding innovative, customized plastics under one roof. Globally active in four major industry sectors – transportation, construction, industrial applications and consumer goods – the division has a strong portfolio of products and services combined with a deep understanding of application-oriented system solutions. Key drivers of profitability and growth are our close collaboration with customers and a clear focus on solutions. Strong capabilities in R&D provide the basis to develop innovative products and applications. In 2016, the Performance Materials division achieved global sales of € 6.9 bn.

More information online: www.performance-materials.basf.com

About BASF

BASF creates chemistry for a sustainable future. We combine financial success with protecting the environment and social responsibility. Around 114,000 employees in the BASF Group work to contribute to the success of our customers, in nearly every industry and in almost every country in the world. Our portfolio covers Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF had worldwide sales of around €58 billion in 2016. BASF shares are traded on the stock exchange in Frankfurt (BAS), London (BFA) and Zürich (BAS). For more information, go to www.basf.com.