We create chemistry

News Release

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BASF introduces new Elastollan® 1400 TPU series

- **Ether-based thermoplastic polyurethane (TPU) with excellent hydrolysis resistance**
- **Enhanced performance for a variety of applications**
- **Experimental grades available for sampling**

BASF launches a new ether-based thermoplastic polyurethane: Elastollan® 1400. The new TPU series provides exceptional hydrolysis and microbe resistance and combines stable processing behavior with good compression set properties. The material delivers outstanding burst pressure performance and can be processed by extrusion and injection molding. The aging stability of Elastollan® 1400 ensures long-lasting performance – a versatile option for a wide range of applications.

Advanced material technology with excellent mechanical properties

Key advantages like hydrolysis resistance and excellent mechanical properties make Elastollan® 1400 an ideal choice for diverse industries such as transportation, industrial manufacturing, and footwear. Whether it is rail pads, cable sheathings, tubes and hoses, profiles, gearwheels, or shoe soles, the new grades provide reliability and long-lasting performance. For the footwear industry, superior wet slip resistance is a key benefit, ensuring enhanced safety and comfort.

The 1400 series offers unique dynamic properties originated from a discrete glass transition temperature (T_g) and an extended viscoelastic plateau. These features contribute to improved dimensional stability and a wide thermal application range.

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Experimental grades ready for sampling

After more than two years of research, experimental grades for specific applications and processing technologies are available for sampling. Customers and interested prospects are invited to explore these new grades further and experience the product's performance firsthand.

Improved sustainability by lower product carbon footprint

The Elastollan® 1400 series has been designed with sustainability in mind, offering a lower carbon footprint when compared to TPU grades with a comparable performance (e.g., for a hardness of shore 80 A it is possible to reduce the carbon footprint by up to 30%). This sustainability advantage appeals to manufacturers prioritizing environmental concerns and seeking ways to minimize their ecological footprint.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Around 112,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €68.9 billion in 2023. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at www.basf.com.

About BASF Performance Materials division

BASF's Performance Materials division is at the forefront of the much-needed sustainability transformation in plastics. Our products are co-created with customers around the globe to bring innovations to major industry sectors such as transportation, consumer goods, industrial applications, and construction. Our R&D focuses on all stages of the plastics journey: Make, Use and Recycle. The MAKE phase is about improving how plastics are made, from product design to the choice of raw materials and the manufacturing process itself. The USE phase enhances plastics' strengths such as light weight, robustness, and thermal resistance. At the end of the product lifecycle, the RECYCLE phase looks at how to close the loop to achieve a circular economy. In 2023, the Performance Materials division achieved global sales of €7.2 billion. Join #ourplasticsjourney at: www.performance-materials.basf.com.