

# News Release

P360/19e  
October 14, 2019

## **BASF develops Ultramid® particle foam for a wide range of applications**

- **Broad scope of applications due to unique profile of characteristics**
- **Material withstands temperatures up to 230°C**

For the first time, BASF introduces a particle foam based on a combination of several polyamide 6 grades. The particle foam excels with a wide range of unique characteristics: high temperature-resistance, outstanding stiffness and strength as well as an excellent chemical resistance, e.g. in contact with fuels, oils and lubricants. Additionally, the closed cell foam structure offers an exceptional compressive strength, a requirement for the use in crash relevant components that are exposed to high mechanical demands. Molded part densities can be adjusted across a wide range of 150 to 600 g/L. Because of this versatility, lightweight applications are possible as well.

“BASF continues its long tradition of developing particle foams. We started this project in close co-operation with our customer and now we are able to successfully produce various prototypes”, said Daniela Longo-Schedel, research engineer at BASF. “Thanks to the temperature stability and adjustable mechanical characteristics, the particle foam is suitable for a wide range of applications. Furthermore, it can be effortlessly processed on conventional EPP-molding machines as well as with innovative water steam free technologies. We are working

closely together with our customers to finalize the product development.”

BASF's Ultramid® grades are molding compounds on the basis of PA6, PA66 and various co-polyamides such as PA66/6. The range also includes PA6/10 and semi-aromatic polyamides. The molding compounds are available unreinforced, reinforced with glass fibers or minerals and also reinforced with long-glass fibers for special applications. Ultramid® is noted for its high mechanical strength, stiffness and thermal stability. In addition, Ultramid® offers good toughness at low temperatures, favorable sliding friction behavior and can be processed without any problems.



**Receive the latest press releases from BASF via WhatsApp on your smartphone or tablet. Register for our news service at [basf.com/whatsapp-news](https://basf.com/whatsapp-news).**

#### **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 2018, the Performance Materials division achieved global sales of €7.65 bn. More information online: [www.plastics.basf.com](http://www.plastics.basf.com).

#### **About BASF**

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 122,000 employees in the

BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of around €63 billion in 2018. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at [www.basf.com](http://www.basf.com)