

News Release

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New Ultrason® P with improved flowability

- **Low-viscosity polyphenylsulfone with excellent mechanical properties**
- **For complex-shaped components in the catering and aircraft industries**

BASF is now expanding its Ultrason® P product range with a particularly low-viscosity grade. The new polyphenylsulfone (PPSU) Ultrason® P 2010 is characterized by improved flow behavior in injection molding while maintaining the excellent mechanical properties of Ultrason® P. Thus it is possible to manufacture larger, complex-shaped components, e.g. catering dishes and heat-resistant containers with sophisticated, thin-walled geometries, for catering and aircraft applications. This means that in processing raw material use, energy consumption and component weight can be reduced: the tool also fills up at lower injection pressures and processing temperatures. Ultrason® P 2010 is now available globally in transparent and opaque.

The new material combines the outstanding notched impact strength and stability of the already available Ultrason® P 3010 with high chemical resistance, good hot steam sterilization at 134°C and inherent fire resistance. The Charpy notched impact strength is almost ten times higher than that of other amorphous high-temperature materials. Even the combination of aggressive cleaning agents and disinfectants, water and extreme heat does not affect Ultrason® P 2010. Furthermore, the transparent high-performance thermoplastic is approved for food contact in the EU and the US.

Catering and aircraft equipment are among the most important application areas for Ultrason® P 2010. In hotels, restaurants and canteens, containers and pans made of the BASF PPSU can be used to prepare food as well as to transport meals and keep them warm. Here the demands on sterilization and resistance to cleaning agents are very high. In aircraft construction, fire resistance is of particular importance. Therefore the inherently flame-retardant specialty plastic, which in the event of fire releases little heat and hardly any harmful substances, offers optimal conditions - not only for serving dishes, but also for seat and lighting cladding, air vents and overhead luggage compartments.

Ultrason® is the trade name for BASF's product range of polyethersulfone (Ultrason® E), polysulfone (Ultrason® S) and polyphenylsulfone (Ultrason® P). The high-performance material is used to manufacture lightweight components in the electronics, automotive and aerospace industries, but also in water filtration membranes and in parts that come into contact with hot water and food. Because of their extraordinary property profile the Ultrason® brands can substitute thermosets, metals and ceramics.

More information: www.ultrason.basf.com

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.

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.