

News Release

P308/20e
October 2nd, 2020

Elastollan® 1598 A 10 FC – The best of two worlds: BASF combines the advantages of ether and ester TPU in one new product

- **BASF presents the first ether-based thermoplastic polyurethane with the mechanical properties of ester TPU**
- **Elastollan® 1598 A 10 FC opens up new fields of application and uses for the industry**

With Elastollan® 1598 A 10 FC, BASF presents at its virtual booth on the occasion of the International Trade Fair for Plastics Processing (Fakuma) starting October 13th, 2020, a novel TPU plastic with food contact (FC) approval that combines the highly effective hydrolysis and microbial resistance of ether-based thermoplastic polyurethanes with the excellent mechanical properties of ester TPU. Elastollan® 1598 A 10 FC is an aromatic thermoplastic polyether polyurethane that BASF has developed specifically to meet its customers' requirements for pneumatic hose applications.

“With Elastollan® 1598 A 10 FC, our customers can benefit from the advantages of two TPU worlds in one product,” says Mark Ottens, Segment Manager of Extrusion TPU at BASF. “This expands the area of application within the target application of pneumatic hoses and the development of new fields of application. Due to the better burst pressure behavior in relation to temperature, the Elastollan® 1598 A 10 FC can be used to achieve a higher operating temperature of pneumatic hoses compared to conventional ether TPUs.”.

Possible applications for higher temperatures needs

The main advantages of Elastollan® 1598 A 10 FC are its outstanding product performance, especially at higher operating temperatures, characterized by significantly reduced creep behavior, increased bursting pressure and the bursting behavior itself. For customers, this means a longer product life as well as an expansion of the field of application, for example, a higher requirement classification. In addition, Elastollan® 1598 A 10 FC characteristics include outstanding crystallization behavior and robust dimensional stability, which results in excellent processability in extrusion. “Customers benefit from efficient processing, e. g., faster line speed or less scrap at startup.” explains Ottens.

Versatility, not only for pneumatic hoses

The excellent performance of Elastollan® 1598 A 10 FC widens the range of new industrial applications. For example, the reduced creep behavior combined with very good wear behavior makes this product ideal for the conveyor and belt sector. Here, a lower creep tendency leads to less slippage and, therefore, improves the conveyor belt’s operating life. In addition, Elastollan® 1598 A 10 FC is available in all colors and is classified for fire safety, according to UL94 HB.

Small optimizations with a big impact

With the new Elastollan® 1598 A 10 FC, BASF is responding to its customers’ changing needs for a resistant ether-based TPU, coupled with the favorable mechanical properties of the ester-based TPU.

“With Elastollan® 1598 A 10 FC, we are demonstrating that even small improvements can effectively open up completely new fields of application and offer added value for our customers,” says Marc Wilken, Key Account Manager, Sales, DACH. “In the development phase, we are working with our customers and partners to examine further fields of application in which the special ether-ester properties of Elastollan® 1598 A 10 FC can offer added value.”

Further information:

www.elastollan.basf.com

www.plastics.basf.com



Fakuma 2020: We are going virtual!

Register now online at fakuma.basf.com to chat with our experts, to experience interactive lectures and to explore the latest highlights on our virtual platform.

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 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 2019, the Performance Materials division achieved global sales of €6.06 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. More than 117,000 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 €59 billion in 2019. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depository Receipts (BASFY) in the U.S. Further information at www.basf.com.