News Release

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LANXESS' Modulast PUR modifier for enhanced performance and economy

- **More efficient processing of thermoplastic polyurethanes**
- **Reduced consumption of key raw materials to overcome current supply bottlenecks**
- **Shorter molding cycles and excellent demolding properties**
- **Improved color, compression set and abrasion resistance**

Cologne, June 21, 2022 – International supply chains have been impaired by the Corona pandemic since 2020, and the supply bottlenecks have been further exacerbated by the effect of Russia's war on Ukraine. Reason enough to use resources as economically as possible. The latest example from the industry: With the Modulast PUR modifier from specialty chemicals company LANXESS, the use of polyols and isocyanates can be reduced while maintaining and often improving physical properties in thermoplastic polyurethanes (TPU) and CASE (Coatings, Adhesives, Sealants, Elastomers) applications.

Highest purity and lowest OH number

Modulast PUR is a proprietary dibenzoate exhibiting the highest purity (> 98%) and lowest hydroxyl number (< 2 mg KOH/g) on the market. It offers superior color, abrasion resistance and compression set and – due to its excellent compatibility – has extremely low migration tendencies.

Savings in raw material and manufacturing costs

By adding the modifier in amounts of up to 30 wt.%, typically 20 wt.%, the consumption of tight polyols and isocyanates and thus the total raw material costs can be reduced significantly. The production process benefits from a reduced temperature range for molding/demolding leading to shorter cycle times and higher productivity.

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Maintaining superior mechanical properties

The high purity of Modulast PUR and its low hydroxyl value results in more complete and efficient reactions of polyol and isocyanate, thus maintaining the superior mechanical properties of polyurethane, e.g., high load bearing capacity (compression set) and excellent strength and toughness, reducing the chance of part failure (abrasion resistance).

Modulast PUR is easy to handle due to its excellent HSE profile and the fact that no labelling is required in the US and in Canada.

All news releases from LANXESS regarding K 2022 are available at https://lanxess.com/K2022/Press.

Image

The high purity of LANXESS' Modulast PUR modifier results in more complete and efficient reactions of polyol and isocyanate, thus maintaining the superior mechanical properties of polyurethane, e.g. in the soles of sport shoes.
Photo: LANXESS

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LANXESS is a leading specialty chemicals company with sales of EUR 7.6 billion in 2021. The company currently has about 14,900 employees in 33 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

Forward-Looking Statements
This company release contains certain forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors, nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accepts any liability whatsoever arising directly or indirectly from the use of this document.

Information for editors:
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You can find further information concerning LANXESS chemistry in our WebMagazine at http://webmagazine.lanxess.com.

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