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New biodegradable materials – measurement of biodegradability as basis for product development

Footage material

Our customers and society are increasingly looking for sustainable innovative solutions. And innovations based on chemistry are often the key to solve the challenges like climate change, scarce resources and to enable a circular economy. Effective and efficient R&D is a prerequisite for innovation. With approximately 10,000 research and development employees around the globe and R&D hubs in Europe, Asia and the US, BASF develops sustainable solutions for its customers every day.

Finding and developing the materials of the future is one of BASF's main research goals. For example, we have been developing biodegradable and bio-based polymers for around 25 years. To find the most suitable material for each application, we need to examine the environmental, social and economic impacts over a product's entire life cycle. International co-operations with world leading academic institutes as well as digital tools like our own supercomputer used for advanced Predictive Biodegradation Modeling are now speeding up R&D processes significantly – helping us to develop more sustainable materials that contribute to a circular economy.

For further information:

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(01) BioPolymers – Analysis of the biodegradability (25.04.2022 / 2'45 / ATMO / Footage)



The basis for the development of new biodegradable products are the deep understanding of the material properties and the mechanism of biodegradation.

In the laboratories of BASF the existing methods for measuring biodegradation are applied and new more efficient and reliable methods are developed in connection with new digital tools. This results in the development of new innovative products, which show a very good performance in the respective applications and at the same time contribute to an improved sustainability profile based on the biodegradability.

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