



Chemical Recycling of Polyurethanes – Closing the Loop

PROJECT DESCRIPTION

BASF and NEVEON have demonstrated that it is possible to produce mattresses which contain recycled raw materials. Together, the two companies have taken another step forward on their journey toward a circular economy. Using an innovative recycling process developed by BASF, it is now possible to produce polyol on a ton scale that is derived entirely from used mattresses. NEVEON processes this recycled polyol into new high-quality mattresses, whose polyol component has an unprecedentedly high recycled content of 80 percent. BASF has equipped its Business-Hotel René Bohn with about 100 of these unique produced mattresses.

Additionally, certified isocyanates and polyols from BASF's biomass-balanced (BMB) product line are used in the production process, where fossil raw materials are replaced by renewable raw materials at the very beginning of the value chain. The mattresses used in the Hotel René Bohn also have a special sustainable feature: Their various foam components are not glued together, unlike most comfort mattresses, but instead connected with an innovative zipper design. This makes it easier to recycle the individual components of the mattresses.

The broad commercial availability of recycled polyols still lies ahead. To close the mattress loop on consumer level, all stakeholders along the value chain must be on board.

PROJECT IMPACT

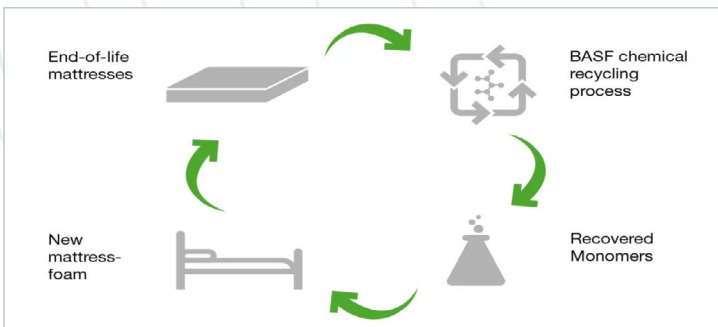
- Regained polyol on ton scale
- Mattresses, whose polyol component have an unprecedentedly high recycled content of 80 percent.



Delivery of mattresses with recycled content from NEVEON to BASF's Hotel René Bohn, Source: BASF SE



Recycled content and designed for recycling - mattresses from NEVEON based on BASF's recycling technology, Source: BASF SE



'Closing the loop for mattresses' visual. Source: BASF SE

ABOUT BASF & NEVEON

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. More than 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €87.3 billion in 2022. Further information at www.basf.com.

NEVEON is a leading, global, integrated foam company offering outstanding flexible and composite polyurethane foams for a huge range of applications, from the comfort segment through the transportation sector to a limitless variety of specialty applications. NEVEON is part of Greiner and with its products pursues the goal of contributing to the enhancement of the quality of life worldwide.

CONTACT

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