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N-Join1: an innovative, adhesive-free carpet that supports the circular economy

Vehicle manufacturers are increasingly looking for recycling solutions for end-of-life vehicles to meet sustainability targets and comply with new regulations that are accelerating the automotive industry's transition toward a circular economy. In response, Autoneum has developed the N-Join1 carpet. This innovative, monomaterial carpet system, made from recycled materials, eliminates the need for latex and adhesives, thereby offering an eco-friendly solution for vehicle interiors.

The N-Join1 employs a unique process that joins the carpet surface together with the substrate in a single step. The substrate can be made from various materials including Autoneum's Pure technology components made of 100 percent polyester, making N-Join1 easier to recycle without limiting customers' design freedom.

The new carpet system offers multiple benefits for vehicle manufacturers. As with other Autoneum interior floor products, N-Join1 is designed to ensure driving comfort with optimal noise protection in the passenger cabin. This innovation can be used together with the Di-Light carpet, which offers an attractive appearance even in highly curved carpet areas due to its uniform surface finish.

Additionally, its monomaterial construction enables waste-free production and full recycling at the vehicle's end-of-life. By eliminating the use of latex, which is water and energy-intensive, N-Join1 reduces resource usage and ensures cleaner production, supporting the automotive industry's move towards more sustainable practices.

Overall, the new carpet system achieves a significant reduction in the carbon footprint when compared to traditional carpet systems of equal weight. The greatest contribution comes from the end-of-life recycling potential enabled by the monomaterial system.

N-Join1 is suitable for a wide range of vehicles, including both internal combustion engine (ICE) vehicles and battery electric vehicles (BEVs). It is currently available in Europe and North America.

Photos:

Images can be downloaded at: https://www.autoneum.com/images_25_07_01/Adhesive free carpet1.jpg and https://www.autoneum.com/images/25_07_01/Adhesive free carpet2.jpg

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About Autoneum

Autoneum is globally leading in acoustic and thermal management for light and commercial vehicles. The company develops and produces multifunctional, lightweight and sustainable components and systems for the interior floor and interior trim as well as the engine bay and the underbody. Customers include almost all automobile manufacturers in Europe, North & South America, Asia and Africa. Autoneum is represented in 25 countries, employs around 16 500 people and operates 77 production facilities worldwide. The company with its headquarters in Winterthur, Switzerland, is listed on the SIX Swiss Exchange (ticker symbol: AUTN).

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