



Product portfolio

Interior · Exterior
New Mobility · Autoneum Pure.
Measurement Systems · Simulation Tools





Interior

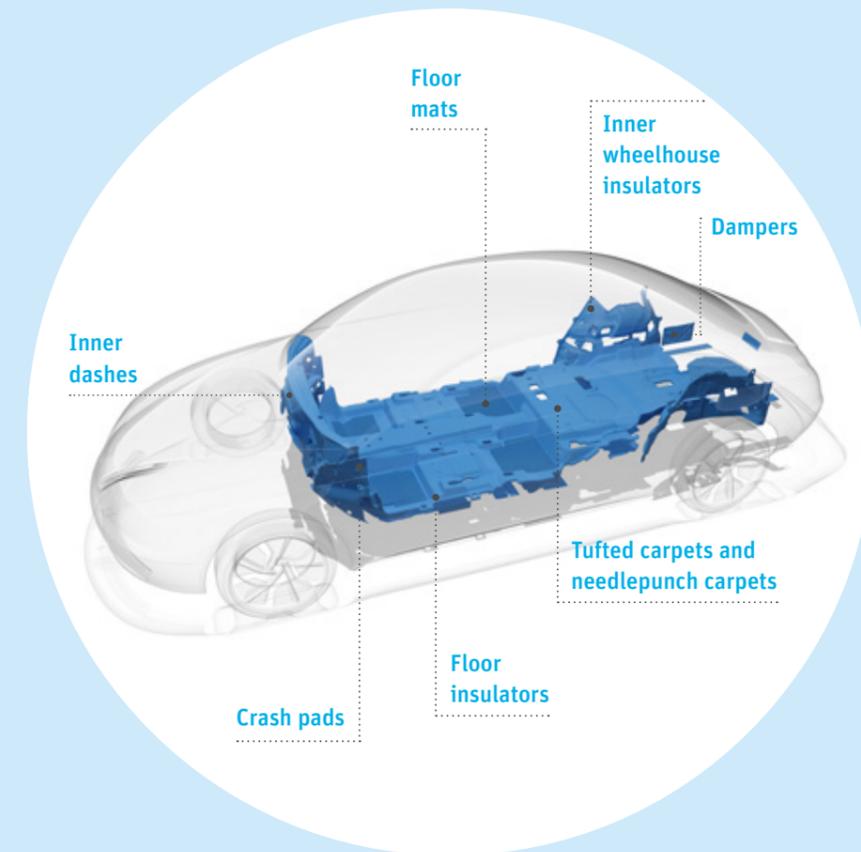
Interior Floor

Autoneum's interior floor products make the vehicle lighter, more comfortable and environmentally-friendly – while providing optimum acoustic performance at the same time. In addition, these multi-functional components also meet the increased requirements for comfortable vehicle interiors thanks to their outstanding cleanability, low odor and high durability.

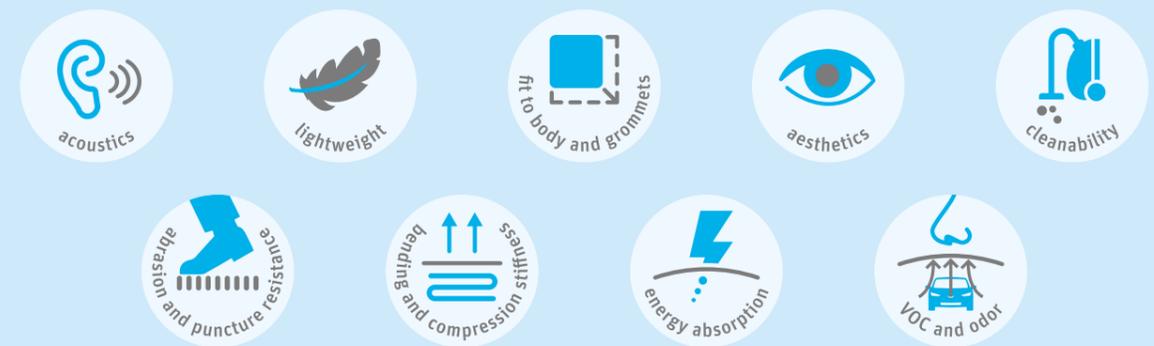


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OVERVIEW



These products include a variety of features and benefits



Autoneum supplies interior floor components to these customers



Di-Light

Better durability and perceived quality



Needlepunch carpets have until now been seen as cost effective textile surfaces but prone to flattening and wear over lifetime. With Di-Light, Autoneum now offers a more durable non-woven carpet thanks to its great abrasion resistance and resilience. The technology additionally allows an attractive esthetics even in highly shaped carpet areas due to its uniform surface appearance. The needlepunch carpet absorbs noise entering the passenger compartment from the road or engine bay, thereby contributing to enhanced driving comfort.

The enhanced resistance-to-weight ratio and the homogeneous look and feel of the carpet are based on newly developed fibers. Depending on the product variant, they consist of up to 97% of recycled PET which is reflected in the carpet's excellent environmental performance.

BENEFITS

Homogeneous look and feel

Highly resilient and wear-resistant

97%

Made from up to 97% recycled PET

Relive-1

Excellent sustainability and cleanability



BENEFITS

Easy to clean from dirt

Improved stain resistance

97%

Made from up to 97% recycled PET

With Relive-1, Autoneum offers an innovative tufted carpet for the compact to premium class that meets the highest requirements of sustainable mobility. Relive-1 carpets are particularly eco-friendly: Only recycled PET bottles are used to manufacture the carpet yarns.

At the same time, Relive-1 carpets have a significantly higher abrasion resistance compared to standard carpets in compact to large class vehicles. Thanks to the vertical alignment of the filaments and the water repellency of polyester, they are also easy to clean and particularly stain-resistant. Small particles and liquids can be removed with no residual traces, which is a key benefit for recreational vehicles like SUVs.

Hybrid-Acoustics

Unique combination of absorption and insulation



Hybrid-Acoustics provides automobile manufacturers with a versatile acoustic solution for inner dashes, floor insulators and inner wheelhouse insulators. This hybrid technology for vehicle interiors offers a unique performance-to-weight ratio: Hybrid-Acoustics is up to 50% lighter than conventional solutions, thus the lightest hybrid technology on the market. Furthermore, it consists largely of recycled materials, which reduces CO₂ emissions during the production process.

Thanks to the dynamic stiffness-controlled layer (DSL), the acoustic properties of Hybrid-Acoustics parts can be locally tuned to maximize absorption or insulation performance. As a result, Autoneum's Hybrid-Acoustics parts can be designed to tackle any acoustic challenges in vehicles. Statistical energy analysis (SEA) simulations that take the available packaging space into account, the acoustic loads and the part's environment are used to find the most optimum material configuration before a physical prototype of the car is available.

BENEFITS

Insulates and absorbs noise simultaneously

Lightweight

Customized
acoustic tuning

Prime-Light

Extremely light and high design freedom



BENEFITS

Lightweight

High recycled content

Improved
design capability

Prime-Light is a further advancement of Autoneum's successful Ultra-Light technology. Components based on this innovative technology can be formed into a wide variety of different shapes and sizes. This way they adjust optimally to the individual body-in-white shapes and take account of increasingly complex production processes in vehicle construction.

Prime-Light also convinces with low weight while maintaining the same level of acoustic protection. Thanks to a 30% weight reduction compared with previous models, Prime-Light-based inner dashes and floor insulators save more than two kilos of a vehicle's weight on average. Prime-Light-based components consist of thermoplastic cotton felt blends in which the share of recycled materials is more than 60% depending on the application-specific composition.

Injection Fiber Process (IFP-R2)

Technology for optimal acoustic performance



Autoneum is setting new standards in felt technology: The fully-automated IFP-R2 production systems are based on the Rotating Injection Fiber process which is an innovative, patented manufacturing process from Autoneum used for manufacturing tailor-made felt blanks for inner dashes and floor insulators in vehicles. These blanks with locally adjusted area weight are then molded into the shape required for the final product.

The advanced process leads to better acoustics, lower weight and the possibility to locally increase the compressional stiffness of carpet systems for improved quality perception. Autoneum also achieves a higher environmental performance of the production process, as up to 75 % of recycled fibers are possible and fewer fiber scrap is generated, which then can additionally be immediately recycled by the line.

BENEFITS

Optimized part weight and acoustics

Increased compression hardness

Up to
75 %
recycled fibers

Autoneum. Mastering sound and heat.

