

Comfort, Durability, Innovation

All in One Ride

Polyurethane Solutions for Automotive Industry

KiMFLEX®
Flexible Foam Systems

KiMCASE®
Special Products

KiMRIGID®
Rigid Foam Systems



KIMPUR



Polyurethane Solutions for Automotive Industry

Polyurethane is at the core of modern automotive innovation.

From superior interior comfort to advanced structural performance, it empowers manufacturers to redefine what is possible across every component of the vehicle.

Hafifliđi, dayanıklılıđı ve çok yönlü kullanım özellikleriyle poliüretan; araç performansını artırırken üretim süreçlerinin daha verimli ilerlemesine de katkı sağlar. Araç bileşenlerinin hafiflemesini desteklerken daha sessiz ve konforlu bir sürüş deneyimine de katkıda bulunur. Otomotiv sektörü dönüşümünü sürdürürken, poliüretan teknolojileri yeni nesil araçların geliştirilmesinde önemli bir rol üstlenmeye devam ediyor.

At Kimpur, we develop high-performance polyurethane systems tailored to the evolving needs of the automotive industry. Our solutions are engineered to help manufacturers enhance interior comfort, optimize production efficiency, reduce component weight, and achieve consistent long-term performance while maintaining design flexibility and process reliability.

Our automotive portfolio is structured around three main system groups:

KIMflex®, **KIMcase®** and **KIMrigid®**, each designed to address specific application requirements across the vehicle, from interior components to structural and insulation solutions.



Where Polyurethane Lives Inside a Vehicle?

Engine Compartment and Hood

Engine cover; NVH components (around fenders and engine components)

KIMflex® Integral Foam Systems

Air and oil filters

KIMflex® Filter Systems

Underhood insulation

KIMflex® Acoustic & NVH Solutions

Hood

KIMrigid® LFI Systems

Roof

Headliner

KIMflex® Semi-Rigid Systems

Roof modules

KIMrigid® LFI Systems

Luggage Compartment and Rear Parcel Shelf

Tailgate interior trim

KIMflex® Semi-Rigid Sistemleri

Luggage compartment floor panels and rear parcel shelf panels

KIMrigid® LFI Sistemleri

Cockpit and Door Panels

Steering wheel, instrument panel, gear knob, armrest and doormat

KIMflex® Integral Foam Systems

Surface skins for instrument panels, door panels and armrests

KIMcase® Spray Skin Polyurethane System

Seats

Seats and headrests

KIMflex® HR Foam Systems

Seat base panels

KIMrigid® LFI Systems

Vehicle Floor

Vehicle floor (for acoustic insulation)

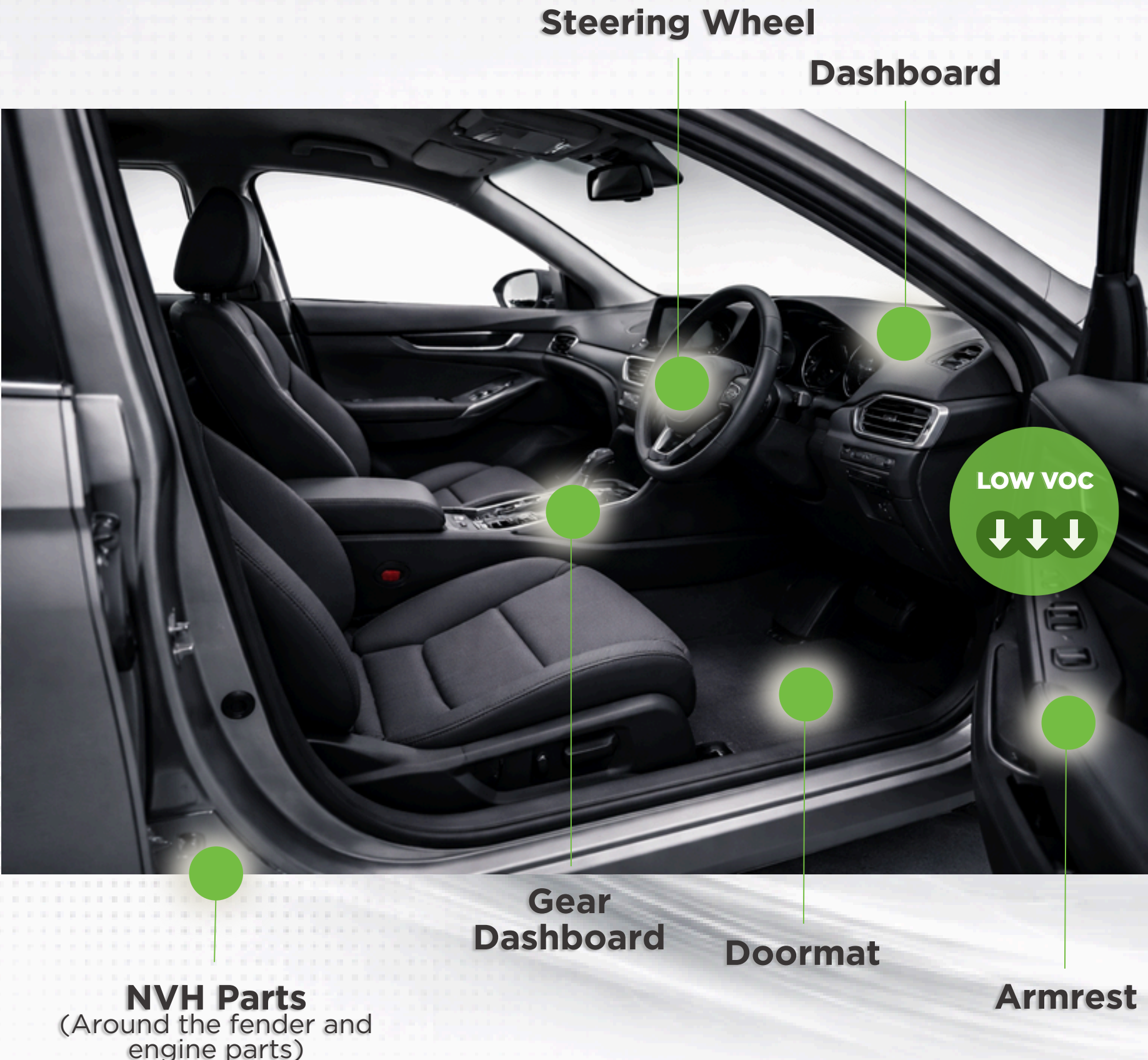
KIMflex® Acoustic & NVH Solutions

Vehicle floor panels

KIMrigid® LFI Systems



KIMflex® Integral Foam Systems



KIMflex® Integral Foam Systems are designed for high-contact automotive interior parts, combining durability, comfort, and surface quality in a single structure.

With an integrated skin and microcellular core, these systems provide a soft-touch feel while maintaining resistance to wear and long-term use. They offer reliable performance in components that are frequently touched and exposed to daily stress.

Production & Performance Benefits

- | | |
|-----------------------------------|---------------------------------------|
| High flexibility | Fast curing and short demolding times |
| Smooth, high-quality skin surface | Adjustable hardness and density range |
| Suitable skin thickness | Regular cell structure |

[Learn More About KIMflex® Integral Foam Systems.](#)

KIMflex® HR Foam Systems



KIMflex® HR Foam Systems are designed to deliver superior seating comfort and long-term performance in automotive applications. Their high resilience and open-cell structure provide an optimal balance between softness and support, ensuring comfort even during long and dynamic driving conditions.

The structure of HR foam allows for effective pressure distribution and shape recovery, helping maintain seat form and performance over time. These systems support ergonomic seat designs by adapting to the body while preserving durability under repeated use.

Graphene Based KIMflex® HR Foam Systems

Kimpur’s graphene-based HR Foam Systems incorporate recycled carbon derived from automotive tires, helping enhance mechanical performance while supporting the use of recovered raw materials in polyurethane formulations.

Production & Performance Benefits

-  **High resilience and flexibility**
-  **Lightweight structure**
-  **Regular cell structure**

-  **Adjustable hardness and density range**
-  **Fast curing and short demolding times**
-  **Reliable processing performance**

Headrest



Learn More About
KIMflex® HR Foam Systems.



Cushioning

KIMflex® Acoustic & NVH Solutions



Engine Compartment



Vehicle Floor

[Learn More About KIMflex® Acoustic & NVH Solutions.](#)

KIMflex® Acoustic & NVH Solutions are designed to reduce noise and improve acoustic comfort in automotive applications. Their open-cell foam structure absorbs and dissipates sound energy, limiting noise transmission within the vehicle cabin.

By reducing vibration and airborne noise, these systems contribute to a quieter and more controlled driving experience. Their lightweight structure also supports overall vehicle efficiency.

Graphene Based KIMflex® NVH Solutions

Kimpur's graphene-based **KIMflex® Acoustic & NVH Solutions** demonstrated up to **%65** higher sound absorption coefficients at 2000-2500 Hz compared to standard formulations, based on acoustic tests conducted by BIAS Engineering in accordance with ISO 10534-2. Tests were performed at an operating ratio of 100/64 and a molded density of 39 kg/m³.

By incorporating recycled carbon derived from automotive tires, these systems support enhanced acoustic performance while contributing to more sustainable material solutions for next-generation vehicle interiors.

Production & Performance Benefits



High sound absorption



High Abrasion Resistance



Lightweight acoustic solutions



Thermal insulation support

KIMflex® Semi-Rigid Foam Systems

KiMFLEX®
Flexible Foam Systems

Headliner



LOW VOC



Luggage Cover

KIMflex® Semi-Rigid Systems Automotive interior components require lightweight structures, dimensional stability, and consistent surface quality to meet modern vehicle design expectations. **KIMflex® Semi-Rigid Systems** are developed for interior applications such as headliners and luggage covers, supporting durable and efficient component production.

With their optimized foam structure and flow behavior, these systems help ensure cleaner processing performance by reducing dust generation and minimizing contamination on mixing heads during production. Their formulation structure also supports improved flame resistance and consistent part quality across different interior applications.

Production & Performance Benefits



Reduced Dust Generation



Improved Flame Resistance



Lightweight structure



Cleaner Production Process



Dimensional Stability

KIMflex® Filter Systems

KiMFLEX®
Flexible Foam Systems

KIMflex® Filter Systems are specially developed polyurethane solutions for automotive air and oil filtration applications. Designed for filter end caps, these systems ensure reliable sealing performance and structural integrity under demanding operating conditions.

Polyurethane is applied to the upper (cap) and lower (base) ends of the filters, where it provides strong adhesion to various filter media and components. Its optimized flow behavior enables precise filling and uniform distribution, supporting efficient and consistent production processes.

Production & Performance Benefits

- | | |
|--|--|
|  Excellent Adhesion Properties |  Dimensional Stability |
|  Vibration Resistance |  Process Efficiency |
|  Lightweight Solution |  Customizable Formulations |
|  Chemical Resistance | |

Air Filter



Oil Filter



KIMcoat® Spray Skin Polyurethane Coating System

KIMCASE®
Special Products

The **KIMcoat Spray Skin Polyurethane Coating System** has been developed to support aesthetic appearance, tactile quality and long-term surface performance in modern automotive manufacturing.

Utilizing spray skin application technology, the system supports both design flexibility and production efficiency for interior surface components. It has been developed to meet the quality and performance expectations of automotive manufacturers.

Production & Performance Benefits

 UV, Chemical, Scratch, and Impact Resistance

 Wide Temperature Resistance

 Short Demolding Time

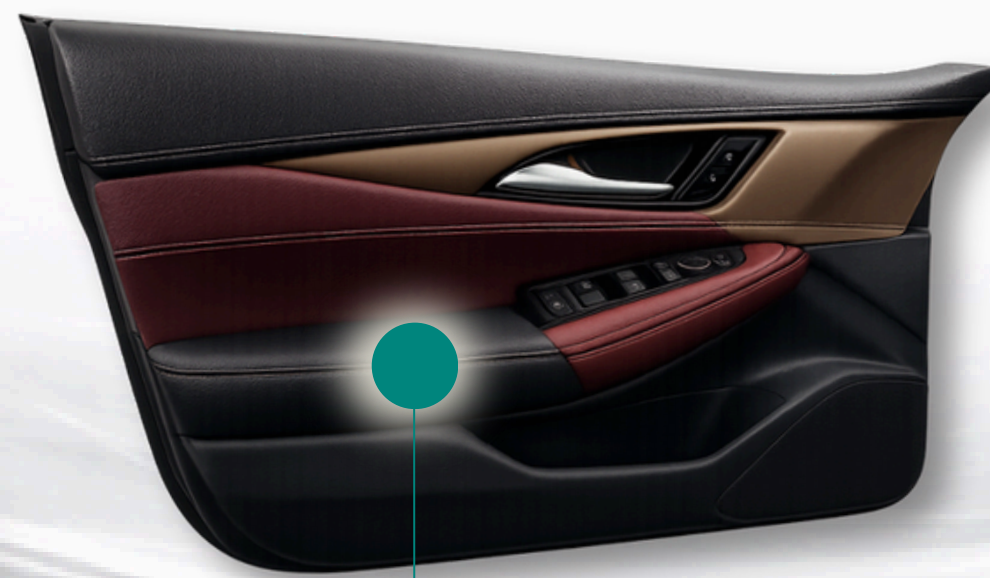
 Suitable for Different Color Applications

 Supports Interior Acoustic Insulation

Learn More About **KIMcoat®** Spray Skin Polyurethane Coating System.



Instrument Panel



Door Panel



Armrest

KIMrigid® LFI Systems

KiMRIGID®
Rigid Foam Systems

KIMrigid® LFI Systems is a high-performance, one-component system developed for long-fiber-reinforced polyurethane composite parts. It offers reliable processing for automotive structural applications with excellent flow, consistent quality and short cycle times.

Production & Performance Benefits



Excellent flow performance at 1100 mPa·s viscosity



Effective mould filling in complex geometries



Efficient performance in thin sections of 5-10 mm



Less than 1% dimensional change



Temperature resistance from -45°C to +120°C

Other Application Areas

Truck Body Parts

Sun Visor and Shading Panels

Industrial Composite Body and Panel Applications



Learn More About [KIMrigid® LFI Systems](#).



Prepolymers

Kimpur produces high-performance polyurethane prepolymers used in the manufacturing of automotive components where comfort, durability, lightness and insulation are essential.

These prepolymers are available in a wide range of NCO values to meet various performance and processing requirements.

Main Applications in Vehicles

Foam Seating Systems

Used as a key raw material in flexible foam formulations for seating applications requiring comfort, durability, and resilience.

Sound Insulation Systems

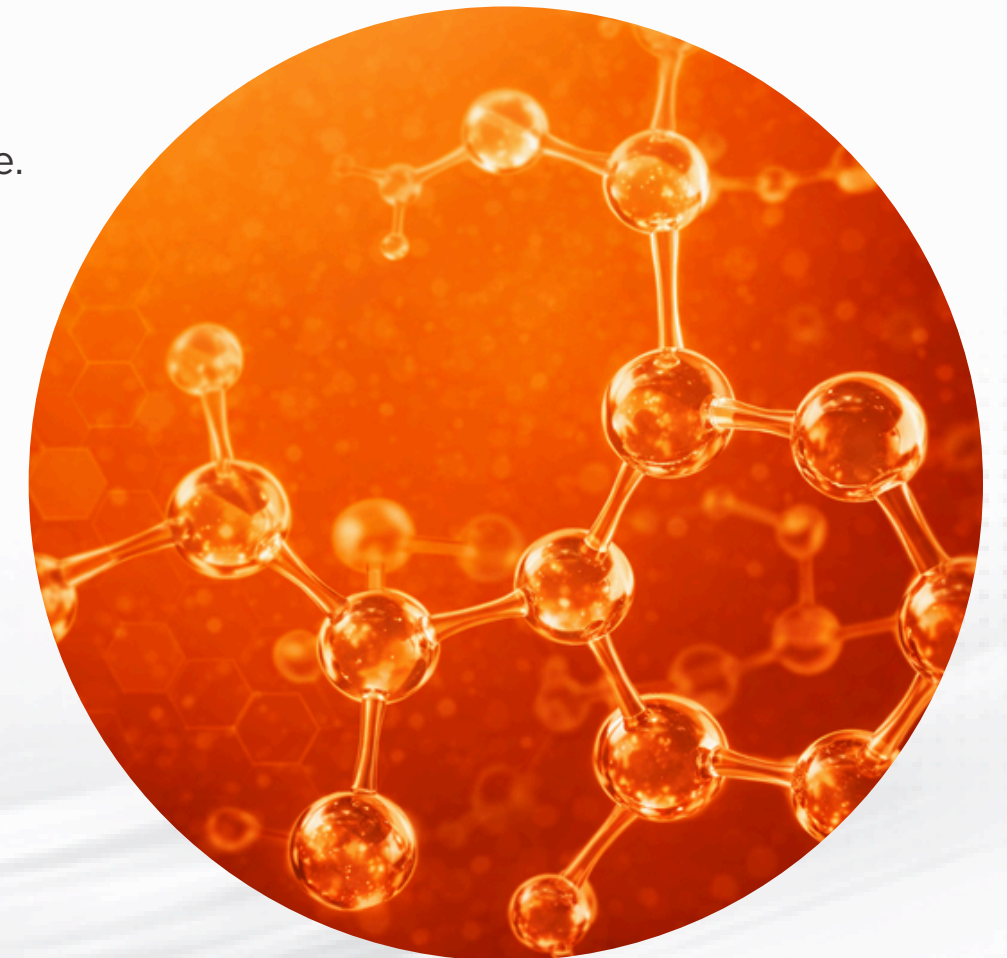
Utilized in acoustic foam formulations to support sound absorption and vibration damping in vehicle interiors.

Thermal Insulation

Forms the basis of insulation foams designed for temperature resistance in HVAC systems and engine-related areas.

Filter Foams

Applied in filter components to enable reliable sealing and structural integrity in air and oil filtration systems.



THE LARGEST POLYURETHANE SYSTEM HOUSE IN THE REGION

Kimpur is the polyurethane system house with the largest production capacity and sales volume in the region. With its broad product portfolio, strong production infrastructure, international operational network, and agile, solution-oriented approach, The company is positioned as a reliable and preferred system supplier in the global market, exporting to more than 60 countries across five continents. The polyurethane systems developed by Kimpur are used in a wide range of industries, including footwear, automotive, furniture, heating and cooling, insulation and construction, and defense.





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cadde No: 43 41400 Gebze / Kocaeli
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DÜZCE PRODUCTION FACILITY

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