

KiMFLEX[®]

Flexible Foam Systems

**Quality Life
With Good Sleep**



KIMPUR

Viscoelastic Systems

KIMvisco[®]

Viscoelastic Systems

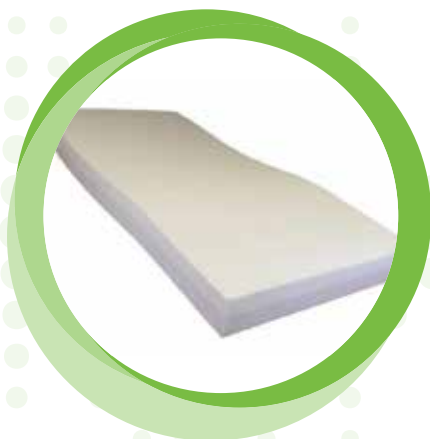
Viscoelastic foam has become the favorite product of the mattress and pillow industry today, since it offers a healthy and comfortable sleep thanks to its softness, movement ability and its body-wrapping structure.

It is a product that has the ability to flex based on body heat and pressure. When the human body contacts the viscoelastic foam, the foam gradually takes the shape of it, and then it slowly regains its original shape. Viscoelastic foams are basically obtained by forming a homogeneous cell structure of polyurethane chains with high mobility. The polyurethane in its content ensures this superior feature for viscoelastic foams. In addition, polyurethane ensures the longevity of viscoelastic foams thanks to its high resistance feature.

Viscoelastic foams are divided into two subgroups: Pneumatic (Physical Visco pVE) and Chemical Visco (cVE). The viscoelasticity effect of physical foams stems from their pore structure and physical properties. It is not dependent on ambient temperature. It has a permanent touch feeling and recovery times proportional to the size of its cells. The cell size has a direct effect on the recovery time, as air flows more easily. The viscoelasticity effect of chemical systems entirely stems from the glass transition temperature (i.e. its chemical property). It is dependent on ambient temperature.

Kimpur has MDI-based **KIMvisco**[®] Viscoelastic Systems, which utilize its own composite cell structure and combine pneumatic and chemical viscoelasticity properties in one group thanks to the Composite Polymer Technology.

Our systems are used in different applications, mainly in the mattress and pillow industry, and provide manufacturers with several pre- and post-application advantages.



AREAS OF USAGE

- Mattress
- Pillow
- Cushion
- Orthopedic Products
- Insole



ADVANTAGES

- Completely environmentally friendly.
- Does not contain harmful chemicals such as lead and phthalates that may be harmful to human health.
- Odorless.
- Low VOC (Volatile Organic Compound)
- Has a wide operation range in production conditions
- Various density, hardness and recovery times.
- Ensures a permanent touch feeling and comfort.
- Allows the foam to breathe thanks to its high air permeability.
- Ensures long-lasting usage thanks to its high strength feature.

KIMvisco Viscoelastic Systems		Certificate	Ratio	Density (kg/m ³)	Application
KIMvisco FV 001	Izokim FV 001	TUV Rheinland TOXPROOF Criteria Home Textile VOC	52	60-65	Pillow
KIMvisco FV 012	Izokim FV 003	-	41	40-45	Pillow
KIMvisco FV 013	Izokim FV 003	-	45	35-45	Pillow
KIMvisco FV 014	Izokim FV 004	-	48	40-45	Pillow
KIMvisco FV 015	Izokim FV 005	-	45	70-80	Batch Block
KIMvisco FV 016	Izokim FV 003	-	43	80-90	Mattress

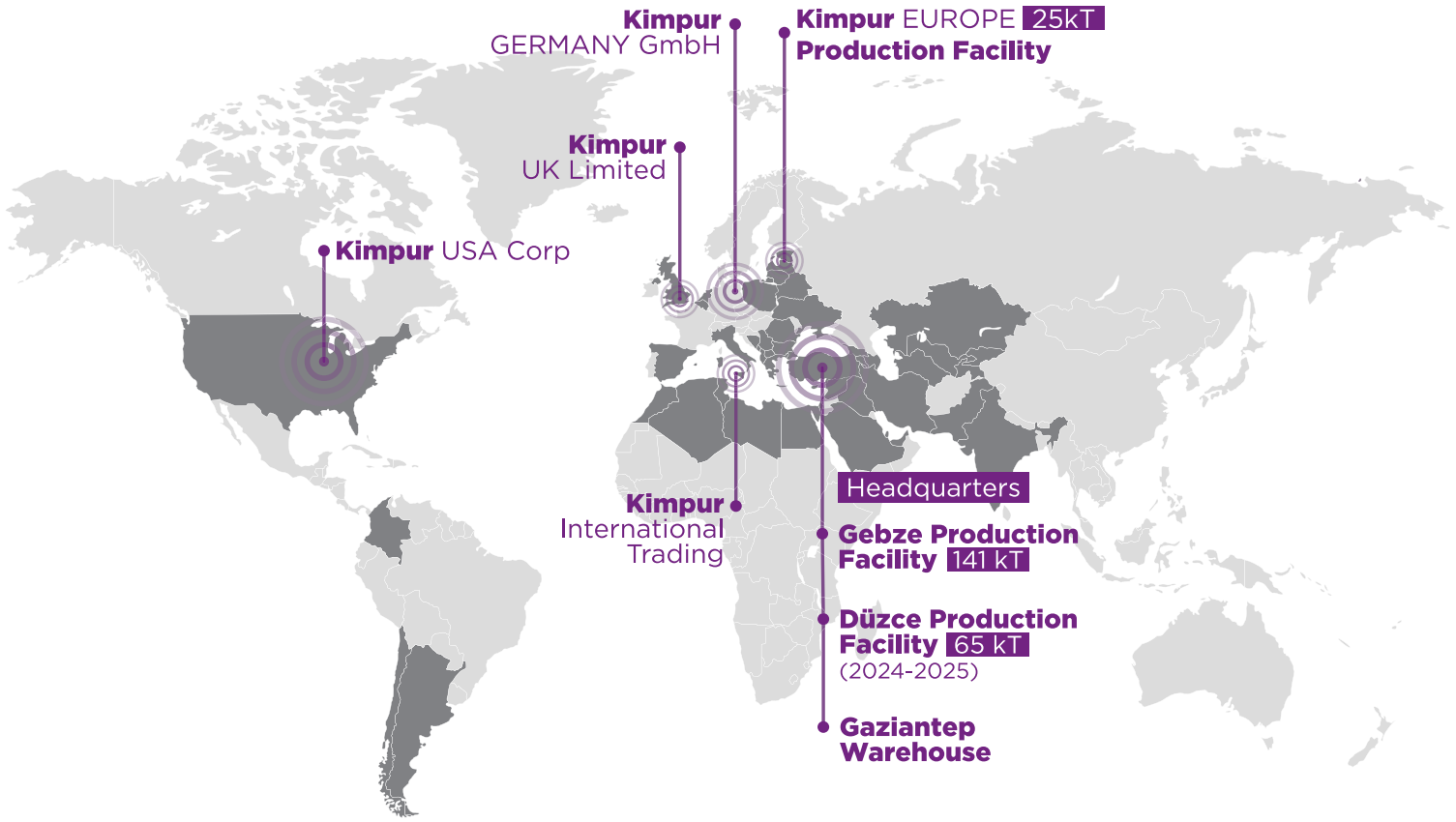
You can contact our sales office for further detailed information about the products, TDS and MSDS documents.



TÜRKİYE'S LARGEST POLYURETHANE SYSTEM HOUSE

Kimpur is the polyurethane system house with the largest capacity in the region, with a production capacity exceeding 200,000 tons. It leads the sector by exporting to more than 50 countries on 5 continents. Polyurethane systems produced; It is used in different sectors such as shoes, automotive, furniture, heating and cooling, insulation-construction and defense industry.

GLOBAL ACTIVITIES



United Nations
Global Compact



Kimpur Corporate Promotional Film
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KİMTEKS POLİÜRETAN SANAYİ VE TİCARET A.Ş.

HEAD OFFICE:

İnkılap Mah. Dr. Adnan Büyükdeniz Cad.
No: 13, B Blok, Kat: 2, İç Kapı No: 6
34768 Ümraniye İstanbul TÜRKİYE
Phone : +90 212 809 15 50
Fax : +90 212 809 15 49

GEBZE PRODUCTION FACILITY:

Gebze Plastikçiler Organize
San. Bölgesi 7. Cadde No:43
41400 Gebze Kocaeli TÜRKİYE
Phone : +90 262 751 44 71
Fax : +90 262 751 02 57

DÜZCE PRODUCTION FACILITY:

OSB, Yakabaşı Mevki, 1. Cadde No:12,
81850 Gümüşova Düzce TÜRKİYE

KİMPUR EUROPE PRODUCTION FACILITY:

Brīvības iela 103, Liepāja,
LV-3401, LATVIA



KİMPUR



For more information
uncommonsolutions@kimpur.com



www.kimpur.com

LEGAL INFORMATION

At Kimpur, we strive to provide you with the highest quality polyurethane systems, backed by our expertise and dedication to innovation. The information provided in this brochure is a reflection of our expertise and knowledge. However, we highly recommend for users to conduct their own thorough assessments and tests to ensure the suitability and optimal performance of our products for their intended applications. While we strive to provide accurate and reliable information, Kimpur does not assume any liability or offer any warranty, whether expressed or implied, regarding the properties, performance, or fitness for a particular purpose of our products. Descriptions, specifications, and other details provided herein are subject to change without prior notice and should not be considered as binding contractual guarantees. As the recipient of our products, our customers assume full responsibility for compliance with all applicable laws, regulations, and intellectual property rights. We highly recommend obtaining comprehensive information on product toxicity, adhering to proper handling procedures, and ensuring compliance with safety and environmental standards. At Kimpur, we value our partnership with you and strive to provide exceptional support. However, it is important to emphasize that the application, use, and processing of our products are ultimately the sole responsibility of the user. Please note that the safety data provided in this brochure is for informational purposes only and does not constitute a legally binding Material Safety Data Sheet (MSDS). To obtain the relevant MSDS, kindly request it from your supplier or contact us directly at uncommonsolutions@kimpur.com. Our team is ready to assist you with any inquiries or specific safety information you may need.

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