



Termoplastic Polyurethane for Footwear Sector

TERMOPLASTIC POLYURETHANE

TPU is a thermoplastic polyurethane with high abrasion resistance, high elasticity, and easy moldability. They can be as soft as rubbers and as rigid as plastics because they contain both soft and rigid segments in their structure.

TPU is characterized by a mostly long, flexible, soft segment that controls properties such as low-temperature performance, weather resistance, solvent resistance, and mechanical characteristics, while the rigid segment is crucial in phase separation. Linear polymeric chains, due to polarity differences, stack on top of each other following a rule where soft segments align with other soft segments, and rigid segments align with other rigid segments. By adjusting the formulation of TPU, it is possible to achieve products with vastly different hardness, density, and elasticity.

Depending on their chemical structure and hardness, soft-type TPUs (65–85 Shore A) display lower tensile strength, whereas hard-type ones (50–70 Shore D) exhibit higher tensile strength. The key feature of TPUs lies in their high abrasion resistance, high elasticity across a broad temperature range, and resistance to oils.

Footwear Termoplastic Polyurethane Systems

Kimpur is the distributor for TPU products used in the production of shoe soles and accessories under the commercial brand 'Wanthane,' owned by Wanhua Chemical Group. These products stand out due to the advantages they provide.



Advantages:

- Outstanding Mechanical Properties
- Superior UV Resistance
- Enhanced Elasticity at Lower Temperatures
- High Abrasion Resistance

i Our TPU formulations can be customized to meet the specific demands of our customers.

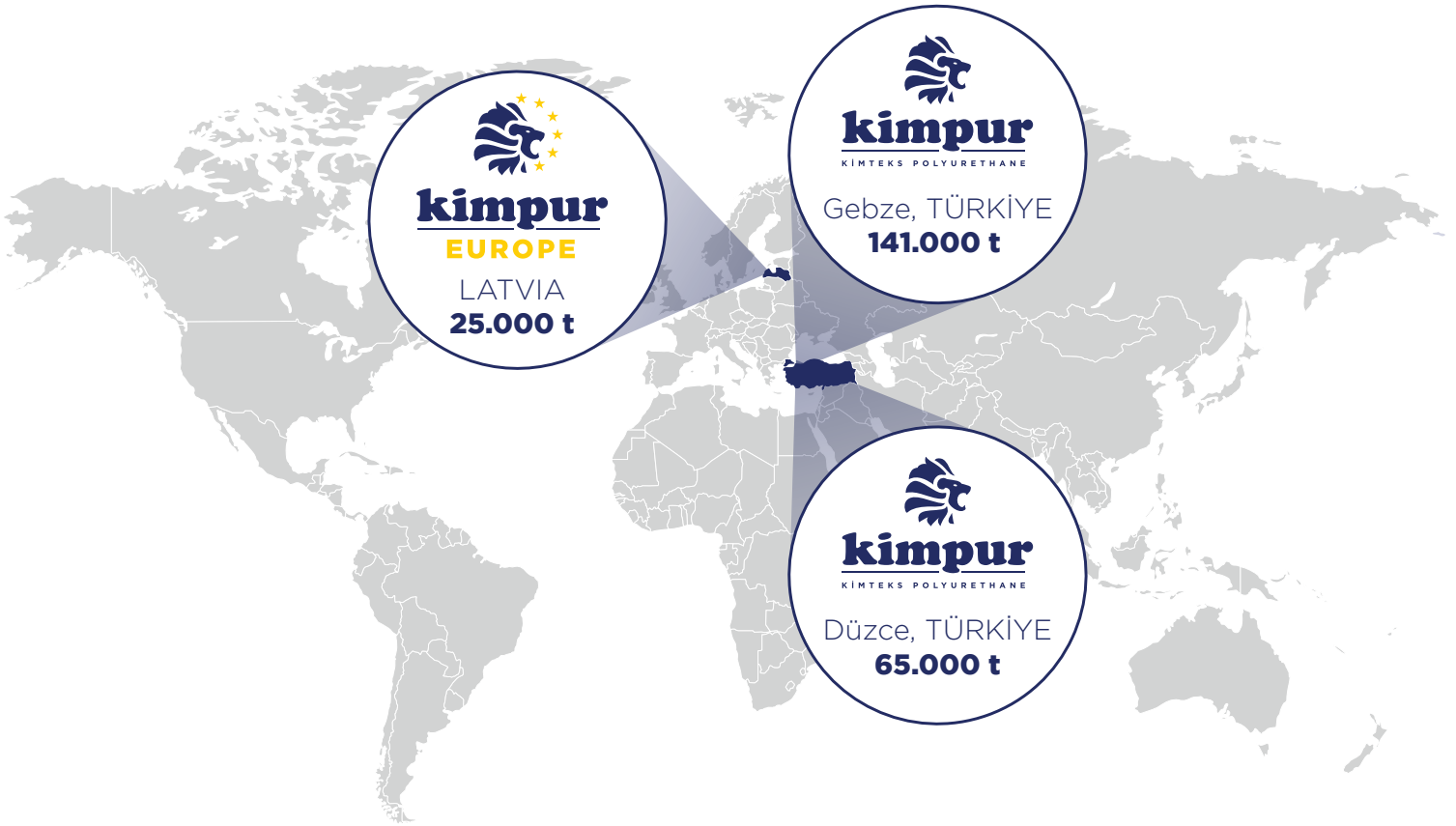
Product	Grade	Application	Specific Gravity (g/cm ³)	Hardness (Sh A)	Elongation %	Tensile Strength (Mpa)	Tear Strength (N/mm)	Abrasion Resistance (mm ³)
WHT - 50965	Polyester Based Soft Structure Elasticity at Low Temperature High Processing Efficiency	Injection	1,19	70	780	20	60	80
WHT - 50975	Polyester Based Soft Structure Elasticity at Low Temperature High Processing Efficiency	Injection	1,19	78	650	25	85	80
WHT - 1570IC	Polyester Based Soft Structure High Processing Efficiency	Injection	1,19	73	650	28	70	50
WHT - 1185EC	Polyester Based Quick Cycle Time High Abrasion Resistance	Injection	1,19	85	650	37	100	50
WHT - 1495RV	Polyester Based Outstanding Mechanical Performance	Air Cushion & Transparent Soles	1,21	95	450	40	160	80



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



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OUR COMMITMENT TO SUSTAINABILITY

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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.