

Global Polyurethane Under-Ballast Mats Market Growth 2026-2032

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Abstracts

The global Polyurethane Under-Ballast Mats market size is predicted to grow from US\$ 111 million in 2025 to US\$ 164 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

Polyurethane Under-Ballast Mats are continuous resilient layers installed beneath the ballast bed of ballasted railway tracks to control track stiffness, reduce vibration and structure-borne noise, improve load distribution, protect ballast and waterproofing structures, and extend maintenance intervals. The products are primarily manufactured from mixed-cell, open-cell or closed-cell polyurethane elastomers and are supplied as sheets, rolls or project-specific prefabricated sections, often with a protective geotextile surface. Key specification parameters include thickness, static and dynamic bedding modulus, dynamic-to-static stiffness ratio, axle-load capacity, fatigue resistance, water absorption and compression set. This study focuses on polyurethane-based under-ballast mats used in mainline railways, high-speed railways, heavy-haul railways, metros, light rail and tram systems, particularly in tunnels, bridges, viaducts, transition zones, sections with restricted ballast depth and urban vibration-sensitive areas. The formal thickness segmentation is Thickness <15 mm, Thickness 15–25 mm and Thickness >25 mm.

Key Findings

Global Polyurethane Under-Ballast Mats output reached 1.04 million square meters in 2025

The global average selling price was approximately US\$109 per square meter in 2025

Thickness 15–25 mm represented the mainstream product range for railway projects

Typical industry gross margins ranged from 35% to 50%

European specialists dominate high-performance products while Chinese suppliers accelerate localization

Market Trends

The Polyurethane Under-Ballast Mats industry is moving from standardized vibration-control sheets toward project-engineered track elasticity systems. Product development increasingly emphasizes lower dynamic-to-static stiffness ratios, reduced water absorption, improved resistance to permanent compression, longer fatigue life and more stable performance under temperature, moisture and chemical exposure. Closed-cell polyurethane is gaining attention in groundwater-prone tunnels, bridge decks and other environments where moisture resistance is critical, while mixed-cell and polyetherurethane products remain widely used where a balance between elasticity, damping and cost is required. Suppliers are also expanding product portfolios across different bedding moduli, thicknesses and axle-load classes, allowing engineers to create gradual stiffness transitions rather than applying a single mat specification throughout a project. Customers are increasingly evaluating lifecycle economics, ballast protection, maintenance intervals and installation efficiency alongside initial material prices. Sustainability is becoming another product-development direction, encouraging reduced material consumption, longer service life, recyclable or recycled polyurethane inputs and more transparent environmental performance.

Market Dynamics

Drivers

Demand is primarily driven by the continued construction and modernization of railways, metros, light rail systems and heavy-haul lines, together with stricter requirements for vibration, structure-borne noise and asset protection in densely populated areas. Polyurethane under-ballast mats provide defined track elasticity, reduce ballast contact stress and help protect bridges, tunnel structures and waterproofing layers. They are particularly valuable in sections with limited ballast depth and at transitions between earthworks and rigid structures, where abrupt stiffness changes can accelerate settlement and component wear. Railway owners' increasing focus on lifecycle cost

also supports adoption because improved ballast condition and longer tamping intervals can reduce possession time, maintenance labor and operating disruption over the service life of the track.

Restraints

The market remains constrained by the relatively high initial cost of engineered polyurethane products compared with recycled-rubber mats and conventional trackbed solutions. Under-ballast mats are not installed across every kilometer of ballasted track; demand is concentrated in locations where vibration reduction, stiffness control or structural protection can justify the additional investment. Product selection also requires track dynamic analysis, accurate load and stiffness calculations, compatible ballast geometry and controlled installation quality. Long approval cycles, railway-specific testing, reference-project requirements and differences among national technical standards slow supplier qualification and make it difficult for new entrants to convert general polyurethane manufacturing capability into commercial railway sales.

Opportunities

The strongest opportunities are expected in railway renewal projects, bridge and tunnel rehabilitation, urban rail extensions, low-ballast-depth structures and stiffness transition zones. Retrofit installation methods allow selected track sections to be upgraded without replacing the entire railway superstructure, expanding the addressable market beyond newly built lines. China provides additional localization opportunities as domestic suppliers develop polyurethane formulations, manufacturing capacity and integrated vibration-control services for metro, high-speed and conventional railway projects. Higher-value opportunities are also emerging for closed-cell products, low-stiffness customized grades, high-axle-load mats, factory-laminated protective layers and combined material-engineering-installation packages.

Challenges

The major technical challenge is maintaining stable elasticity and damping performance over decades of cyclic loading while exposed to moisture, ballast puncture, temperature variation, oils and other contaminants. A mat that is excessively soft may increase track deflection, while a product that is too stiff may provide insufficient vibration isolation, making engineering design and product consistency critical. Commercial comparison is also difficult because prices vary with thickness, bedding modulus, cell structure, protective layers, project volume, certification and delivery scope. The industry must

additionally manage raw-material price volatility, particularly for polyols and isocyanates, while defending polyurethane's performance premium against lower-cost rubber-granulate products.

Industry Chain Analysis

The upstream industry consists primarily of polyether or polyester polyols, MDI and other isocyanates, chain extenders, catalysts, foaming agents, flame retardants, pigments, performance additives, reinforcing materials and protective geotextiles. Midstream manufacturers formulate the polyurethane system, control cell structure and density, conduct foaming or molding, curing, cutting, surface lamination and performance testing, and then provide project-specific stiffness selection and installation support. The downstream market includes railway and urban transit owners, design institutes, railway engineering contractors, track-system integrators, installation companies and railway or metro operators. Typical industry gross margins are approximately 35%–50%. Within manufacturing cost, direct materials account for about 65%, manufacturing overhead for approximately 25% and direct labor for about 10%. Value creation is concentrated in proprietary formulations, long-term fatigue performance, stable dynamic properties, railway approvals, project design capability and accumulated operating references rather than in basic sheet conversion alone.

Segment Insights

Thickness is a practical and mutually exclusive market segmentation because it directly affects material consumption, stiffness, installation height and selling price. Thickness 15–25 mm is the mainstream segment, offering a balance among vibration isolation, load capacity, structural height and project cost; several established suppliers provide core railway products near 17.5 mm, 19.5 mm, 20 mm and 25 mm. Products below 15 mm are generally used where available construction height is restricted or where relatively higher stiffness is required. Products above 25 mm are more commonly selected for lower-stiffness systems, stronger vibration isolation or specialized urban and bridge applications, although thicker material does not automatically provide better performance because bedding modulus and cell structure remain decisive.

A secondary technical segmentation can be made between mixed-cell or open-cell polyurethane, closed-cell polyurethane and polyurethane composite mats. Mixed-cell products offer a broad combination of elasticity and damping, closed-cell materials provide low water absorption and environmental durability, and composite products allow manufacturers to optimize mechanical performance or cost. These technical

categories should be analyzed separately from rubber-granulate mats containing polyurethane binder, because the latter remain rubber-based under-ballast mats rather than polyurethane under-ballast mats.

Downstream Market Opportunities

The principal customers are railway infrastructure owners, metro companies, railway EPC contractors, track designers and specialized vibration-control contractors. High-potential applications include tunnels beneath residential or commercial districts, bridges and viaducts requiring ballast and waterproofing protection, transition zones between embankments and rigid structures, railway sections close to hospitals or precision facilities, and tracks with restricted ballast depth. Existing-line renewal is an important incremental opportunity because under-ballast mats can be installed in selected problem sections to control vibration, reduce differential settlement or improve ballast durability. Products capable of combining technical calculation, customized stiffness, prefabricated geometry, installation training and on-site quality assurance are expected to capture a higher share of project value.

Regional Insights

Europe is the largest regional market and the main technology center, supported by a concentrated group of specialized polyurethane manufacturers, established railway testing systems and a long history of under-ballast mat applications. Austria, Germany, Switzerland and Poland contain several of the industry's leading product developers, covering mixed-cell polyurethane, polyetherurethane, closed-cell polyurethane and polyurethane composites. European customers place substantial emphasis on standardized mechanical testing, reference projects, lifecycle performance and environmental documentation, creating relatively high barriers to entry.

China is an important growth market as railway and urban transit vibration-control requirements become more sophisticated and local manufacturers expand from general vibration-isolation materials into railway-specific polyurethane mats. Shandong Aozo New Materials has disclosed a dedicated polyurethane under-ballast mat product, while Beijing Jiuzhouyigui has introduced a polyurethane vibration mat suitable for installation beneath ballasted and slab track structures. Guangdong Weibote Acoustic Technology provides polyurethane railway vibration-isolation systems but remains an extended participant until dedicated under-ballast specifications and commercial ballasted-track references are more clearly established. North America, East Asia, Southeast Asia and the Middle East remain more project-driven markets, with European suppliers, local

engineering partners and import channels playing important roles.

Competitive Landscape Analysis

The verified core manufacturer pool includes Getzner, KRAIBURG PuraSys, GERB, HBT-ISOL, TINES Rail, Shandong Aozo New Materials and Beijing Jiuzhouyigui. Getzner holds the strongest publicly documented installed base, with more than three million square meters of under-ballast mats installed and over 30 years of operating experience. KRAIBURG PuraSys specializes in polyetherurethane railway supports, GERB differentiates through closed-cell NOVODAMP solutions, HBT-ISOL offers polyurethane grades across a wide stiffness and axle-load range, and TINES Rail supplies certified polyurethane-composite SBM products. Chinese competitors primarily compete through localization, delivery responsiveness, engineering service and cost control. Guangdong Weibote is treated as an extended supplier because its official materials confirm railway polyurethane vibration-isolation systems but do not yet clearly separate a dedicated under-ballast product line. Trackelast is treated as an adjacent product brand because its currently documented mat is designed for ballastless slab track, while Altraix is classified as a distributor and technical sales organization for PURASYS and DAMTEC rather than an independent polyurethane mat manufacturer. Competition is therefore based on material performance, railway certification, reference projects, engineering capability and lifecycle cost rather than on manufacturing capacity alone.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Polyurethane Under-Ballast Mats Industry Forecast" looks at past sales and reviews total world Polyurethane Under-Ballast Mats sales in 2025, providing a comprehensive analysis by region and market sector of projected Polyurethane Under-Ballast Mats sales for 2026 through 2032. With Polyurethane Under-Ballast Mats sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polyurethane Under-Ballast Mats industry.

This Insight Report provides a comprehensive analysis of the global Polyurethane Under-Ballast Mats landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Polyurethane Under-Ballast Mats portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

firms' unique position in an accelerating global Polyurethane Under-Ballast Mats market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polyurethane Under-Ballast Mats and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Polyurethane Under-Ballast Mats.

This report presents a comprehensive overview, market shares, and growth opportunities of Polyurethane Under-Ballast Mats market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Thickness <15mm

Thickness 15mm–25mm

Thickness >25mm

Segmentation by Bedding Modulus:

<0.02 N/mm³

0.02~0.06 N/mm³

>0.06 N/mm³

Segmentation by Application:

Railway

Subway

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Getzner

KRAIBURG

GERB

Trackelast

Altraix

HBT-ISOL

TINES Rail

Shandong Aozo New Materials

Guangdong Weibote Acoustic Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Polyurethane Under-Ballast Mats market?

What factors are driving Polyurethane Under-Ballast Mats market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Polyurethane Under-Ballast Mats market opportunities vary by end market size?

How does Polyurethane Under-Ballast Mats break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Polyurethane Under-Ballast Mats Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Polyurethane Under-Ballast Mats by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Polyurethane Under-Ballast Mats by Country/Region, 2021, 2025 & 2032
- 2.2 Polyurethane Under-Ballast Mats Segment by Type
 - 2.2.1 Thickness <15mm
 - 2.2.2 Thickness 15mm–25mm
 - 2.2.3 Thickness >25mm
 - 2.2.4 Polyurethane Under-Ballast Mats Sales by Type
 - 2.2.4.1 Global Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Polyurethane Under-Ballast Mats Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Polyurethane Under-Ballast Mats Sale Price by Type (2021-2026)
- 2.3 Polyurethane Under-Ballast Mats Segment by Bedding Modulus
 - 2.3.1 <0.02 N/mm³
 - 2.3.2 0.02~0.06 N/mm³
 - 2.3.3 >0.06 N/mm³
 - 2.3.4 Polyurethane Under-Ballast Mats Sales by Bedding Modulus
 - 2.3.4.1 Global Polyurethane Under-Ballast Mats Sales Market Share by Bedding Modulus (2021-2026)
 - 2.3.4.2 Global Polyurethane Under-Ballast Mats Revenue and Market Share by

Bedding Modulus (2021-2026)

2.3.4.3 Global Polyurethane Under-Ballast Mats Sale Price by Bedding Modulus (2021-2026)

2.4 Polyurethane Under-Ballast Mats Segment by Application

2.4.1 Railway

2.4.2 Subway

2.4.3 Others

2.4.4 Polyurethane Under-Ballast Mats Sales by Application

2.4.4.1 Global Polyurethane Under-Ballast Mats Sale Market Share by Application (2021-2026)

2.4.4.2 Global Polyurethane Under-Ballast Mats Revenue and Market Share by Application (2021-2026)

2.4.4.3 Global Polyurethane Under-Ballast Mats Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Polyurethane Under-Ballast Mats Breakdown Data by Company

3.1.1 Global Polyurethane Under-Ballast Mats Annual Sales by Company (2021-2026)

3.1.2 Global Polyurethane Under-Ballast Mats Sales Market Share by Company (2021-2026)

3.2 Global Polyurethane Under-Ballast Mats Annual Revenue by Company (2021-2026)

3.2.1 Global Polyurethane Under-Ballast Mats Revenue by Company (2021-2026)

3.2.2 Global Polyurethane Under-Ballast Mats Revenue Market Share by Company (2021-2026)

3.3 Global Polyurethane Under-Ballast Mats Sale Price by Company

3.4 Key Manufacturers Polyurethane Under-Ballast Mats Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Polyurethane Under-Ballast Mats Product Location Distribution

3.4.2 Players Polyurethane Under-Ballast Mats Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR POLYURETHANE UNDER-BALLAST MATS BY GEOGRAPHIC REGION

4.1 World Historic Polyurethane Under-Ballast Mats Market Size by Geographic Region (2021-2026)

4.1.1 Global Polyurethane Under-Ballast Mats Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Polyurethane Under-Ballast Mats Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Polyurethane Under-Ballast Mats Market Size by Country/Region (2021-2026)

4.2.1 Global Polyurethane Under-Ballast Mats Annual Sales by Country/Region (2021-2026)

4.2.2 Global Polyurethane Under-Ballast Mats Annual Revenue by Country/Region (2021-2026)

4.3 Americas Polyurethane Under-Ballast Mats Sales Growth

4.4 APAC Polyurethane Under-Ballast Mats Sales Growth

4.5 Europe Polyurethane Under-Ballast Mats Sales Growth

4.6 Middle East & Africa Polyurethane Under-Ballast Mats Sales Growth

5 AMERICAS

5.1 Americas Polyurethane Under-Ballast Mats Sales by Country

5.1.1 Americas Polyurethane Under-Ballast Mats Sales by Country (2021-2026)

5.1.2 Americas Polyurethane Under-Ballast Mats Revenue by Country (2021-2026)

5.2 Americas Polyurethane Under-Ballast Mats Sales by Type (2021-2026)

5.3 Americas Polyurethane Under-Ballast Mats Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Polyurethane Under-Ballast Mats Sales by Region

6.1.1 APAC Polyurethane Under-Ballast Mats Sales by Region (2021-2026)

6.1.2 APAC Polyurethane Under-Ballast Mats Revenue by Region (2021-2026)

6.2 APAC Polyurethane Under-Ballast Mats Sales by Type (2021-2026)

6.3 APAC Polyurethane Under-Ballast Mats Sales by Application (2021-2026)

6.4 China

6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Polyurethane Under-Ballast Mats by Country
 - 7.1.1 Europe Polyurethane Under-Ballast Mats Sales by Country (2021-2026)
 - 7.1.2 Europe Polyurethane Under-Ballast Mats Revenue by Country (2021-2026)
- 7.2 Europe Polyurethane Under-Ballast Mats Sales by Type (2021-2026)
- 7.3 Europe Polyurethane Under-Ballast Mats Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Polyurethane Under-Ballast Mats by Country
 - 8.1.1 Middle East & Africa Polyurethane Under-Ballast Mats Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Polyurethane Under-Ballast Mats Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Polyurethane Under-Ballast Mats Sales by Type (2021-2026)
- 8.3 Middle East & Africa Polyurethane Under-Ballast Mats Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Polyurethane Under-Ballast Mats

10.3 Manufacturing Process Analysis of Polyurethane Under-Ballast Mats

10.4 Industry Chain Structure of Polyurethane Under-Ballast Mats

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Polyurethane Under-Ballast Mats Distributors

11.3 Polyurethane Under-Ballast Mats Customer

12 WORLD FORECAST REVIEW FOR POLYURETHANE UNDER-BALLAST MATS BY GEOGRAPHIC REGION

12.1 Global Polyurethane Under-Ballast Mats Market Size Forecast by Region

12.1.1 Global Polyurethane Under-Ballast Mats Forecast by Region (2027-2032)

12.1.2 Global Polyurethane Under-Ballast Mats Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Polyurethane Under-Ballast Mats Forecast by Type (2027-2032)

12.7 Global Polyurethane Under-Ballast Mats Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Getzner

13.1.1 Getzner Company Information

13.1.2 Getzner Polyurethane Under-Ballast Mats Product Portfolios and Specifications

13.1.3 Getzner Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Getzner Main Business Overview

- 13.1.5 Getzner Latest Developments
- 13.2 KRAIBURG
 - 13.2.1 KRAIBURG Company Information
 - 13.2.2 KRAIBURG Polyurethane Under-Ballast Mats Product Portfolios and Specifications
 - 13.2.3 KRAIBURG Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 KRAIBURG Main Business Overview
 - 13.2.5 KRAIBURG Latest Developments
- 13.3 GERB
 - 13.3.1 GERB Company Information
 - 13.3.2 GERB Polyurethane Under-Ballast Mats Product Portfolios and Specifications
 - 13.3.3 GERB Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 GERB Main Business Overview
 - 13.3.5 GERB Latest Developments
- 13.4 Trackelast
 - 13.4.1 Trackelast Company Information
 - 13.4.2 Trackelast Polyurethane Under-Ballast Mats Product Portfolios and Specifications
 - 13.4.3 Trackelast Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Trackelast Main Business Overview
 - 13.4.5 Trackelast Latest Developments
- 13.5 Altraix
 - 13.5.1 Altraix Company Information
 - 13.5.2 Altraix Polyurethane Under-Ballast Mats Product Portfolios and Specifications
 - 13.5.3 Altraix Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Altraix Main Business Overview
 - 13.5.5 Altraix Latest Developments
- 13.6 HBT-ISOL
 - 13.6.1 HBT-ISOL Company Information
 - 13.6.2 HBT-ISOL Polyurethane Under-Ballast Mats Product Portfolios and Specifications
 - 13.6.3 HBT-ISOL Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 HBT-ISOL Main Business Overview
 - 13.6.5 HBT-ISOL Latest Developments

13.7 TINES Rail

13.7.1 TINES Rail Company Information

13.7.2 TINES Rail Polyurethane Under-Ballast Mats Product Portfolios and Specifications

13.7.3 TINES Rail Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 TINES Rail Main Business Overview

13.7.5 TINES Rail Latest Developments

13.8 Shandong Aozo New Materials

13.8.1 Shandong Aozo New Materials Company Information

13.8.2 Shandong Aozo New Materials Polyurethane Under-Ballast Mats Product Portfolios and Specifications

13.8.3 Shandong Aozo New Materials Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shandong Aozo New Materials Main Business Overview

13.8.5 Shandong Aozo New Materials Latest Developments

13.9 Guangdong Weibote Acoustic Technology

13.9.1 Guangdong Weibote Acoustic Technology Company Information

13.9.2 Guangdong Weibote Acoustic Technology Polyurethane Under-Ballast Mats Product Portfolios and Specifications

13.9.3 Guangdong Weibote Acoustic Technology Polyurethane Under-Ballast Mats Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Guangdong Weibote Acoustic Technology Main Business Overview

13.9.5 Guangdong Weibote Acoustic Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Polyurethane Under-Ballast Mats Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Polyurethane Under-Ballast Mats Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Thickness <15mm
- Table 4. Major Players of Thickness 15mm–25mm
- Table 5. Major Players of Thickness >25mm
- Table 6. Global Polyurethane Under-Ballast Mats Sales by Type (2021-2026) & (K Sqm)
- Table 7. Global Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)
- Table 8. Global Polyurethane Under-Ballast Mats Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Polyurethane Under-Ballast Mats Revenue Market Share by Type (2021-2026)
- Table 10. Global Polyurethane Under-Ballast Mats Sale Price by Type (2021-2026) & (US\$/Sq m)
- Table 11. Major Players of <0.02 N/mm³
- Table 12. Major Players of 0.02~0.06 N/mm³
- Table 13. Major Players of >0.06 N/mm³
- Table 14. Global Polyurethane Under-Ballast Mats Sales by Bedding Modulus (2021-2026) & (K Sqm)
- Table 15. Global Polyurethane Under-Ballast Mats Sales Market Share by Bedding Modulus (2021-2026)
- Table 16. Global Polyurethane Under-Ballast Mats Revenue by Bedding Modulus (2021-2026) & (\$ million)
- Table 17. Global Polyurethane Under-Ballast Mats Revenue Market Share by Bedding Modulus (2021-2026)
- Table 18. Global Polyurethane Under-Ballast Mats Sale Price by Bedding Modulus (2021-2026) & (US\$/Sq m)
- Table 19. Global Polyurethane Under-Ballast Mats Sale by Application (2021-2026) & (K Sqm)
- Table 20. Global Polyurethane Under-Ballast Mats Sale Market Share by Application (2021-2026)
- Table 21. Global Polyurethane Under-Ballast Mats Revenue by Application (2021-2026) & (\$ million)

Table 22. Global Polyurethane Under-Ballast Mats Revenue Market Share by Application (2021-2026)
Table 23. Global Polyurethane Under-Ballast Mats Sale Price by Application (2021-2026) & (US\$/Sq m)
Table 24. Global Polyurethane Under-Ballast Mats Sales by Company (2021-2026) & (K Sqm)
Table 25. Global Polyurethane Under-Ballast Mats Sales Market Share by Company (2021-2026)
Table 26. Global Polyurethane Under-Ballast Mats Revenue by Company (2021-2026) & (\$ millions)
Table 27. Global Polyurethane Under-Ballast Mats Revenue Market Share by Company (2021-2026)
Table 28. Global Polyurethane Under-Ballast Mats Sale Price by Company (2021-2026) & (US\$/Sq m)
Table 29. Key Manufacturers Polyurethane Under-Ballast Mats Producing Area Distribution and Sales Area
Table 30. Players Polyurethane Under-Ballast Mats Products Offered
Table 31. Polyurethane Under-Ballast Mats Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 32. New Products and Potential Entrants
Table 33. Market M&A Activity & Strategy
Table 34. Global Polyurethane Under-Ballast Mats Sales by Geographic Region (2021-2026) & (K Sqm)
Table 35. Global Polyurethane Under-Ballast Mats Sales Market Share Geographic Region (2021-2026)
Table 36. Global Polyurethane Under-Ballast Mats Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 37. Global Polyurethane Under-Ballast Mats Revenue Market Share by Geographic Region (2021-2026)
Table 38. Global Polyurethane Under-Ballast Mats Sales by Country/Region (2021-2026) & (K Sqm)
Table 39. Global Polyurethane Under-Ballast Mats Sales Market Share by Country/Region (2021-2026)
Table 40. Global Polyurethane Under-Ballast Mats Revenue by Country/Region (2021-2026) & (\$ millions)
Table 41. Global Polyurethane Under-Ballast Mats Revenue Market Share by Country/Region (2021-2026)
Table 42. Americas Polyurethane Under-Ballast Mats Sales by Country (2021-2026) & (K Sqm)

Table 43. Americas Polyurethane Under-Ballast Mats Sales Market Share by Country (2021-2026)

Table 44. Americas Polyurethane Under-Ballast Mats Revenue by Country (2021-2026) & (\$ millions)

Table 45. Americas Polyurethane Under-Ballast Mats Sales by Type (2021-2026) & (K Sqm)

Table 46. Americas Polyurethane Under-Ballast Mats Sales by Application (2021-2026) & (K Sqm)

Table 47. APAC Polyurethane Under-Ballast Mats Sales by Region (2021-2026) & (K Sqm)

Table 48. APAC Polyurethane Under-Ballast Mats Sales Market Share by Region (2021-2026)

Table 49. APAC Polyurethane Under-Ballast Mats Revenue by Region (2021-2026) & (\$ millions)

Table 50. APAC Polyurethane Under-Ballast Mats Sales by Type (2021-2026) & (K Sqm)

Table 51. APAC Polyurethane Under-Ballast Mats Sales by Application (2021-2026) & (K Sqm)

Table 52. Europe Polyurethane Under-Ballast Mats Sales by Country (2021-2026) & (K Sqm)

Table 53. Europe Polyurethane Under-Ballast Mats Revenue by Country (2021-2026) & (\$ millions)

Table 54. Europe Polyurethane Under-Ballast Mats Sales by Type (2021-2026) & (K Sqm)

Table 55. Europe Polyurethane Under-Ballast Mats Sales by Application (2021-2026) & (K Sqm)

Table 56. Middle East & Africa Polyurethane Under-Ballast Mats Sales by Country (2021-2026) & (K Sqm)

Table 57. Middle East & Africa Polyurethane Under-Ballast Mats Revenue Market Share by Country (2021-2026)

Table 58. Middle East & Africa Polyurethane Under-Ballast Mats Sales by Type (2021-2026) & (K Sqm)

Table 59. Middle East & Africa Polyurethane Under-Ballast Mats Sales by Application (2021-2026) & (K Sqm)

Table 60. Key Market Drivers & Growth Opportunities of Polyurethane Under-Ballast Mats

Table 61. Key Market Challenges & Risks of Polyurethane Under-Ballast Mats

Table 62. Key Industry Trends of Polyurethane Under-Ballast Mats

Table 63. Polyurethane Under-Ballast Mats Raw Material

Table 64. Key Suppliers of Raw Materials
Table 65. Polyurethane Under-Ballast Mats Distributors List
Table 66. Polyurethane Under-Ballast Mats Customer List
Table 67. Global Polyurethane Under-Ballast Mats Sales Forecast by Region (2027-2032) & (K Sqm)
Table 68. Global Polyurethane Under-Ballast Mats Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 69. Americas Polyurethane Under-Ballast Mats Sales Forecast by Country (2027-2032) & (K Sqm)
Table 70. Americas Polyurethane Under-Ballast Mats Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 71. APAC Polyurethane Under-Ballast Mats Sales Forecast by Region (2027-2032) & (K Sqm)
Table 72. APAC Polyurethane Under-Ballast Mats Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 73. Europe Polyurethane Under-Ballast Mats Sales Forecast by Country (2027-2032) & (K Sqm)
Table 74. Europe Polyurethane Under-Ballast Mats Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 75. Middle East & Africa Polyurethane Under-Ballast Mats Sales Forecast by Country (2027-2032) & (K Sqm)
Table 76. Middle East & Africa Polyurethane Under-Ballast Mats Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. Global Polyurethane Under-Ballast Mats Sales Forecast by Type (2027-2032) & (K Sqm)
Table 78. Global Polyurethane Under-Ballast Mats Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 79. Global Polyurethane Under-Ballast Mats Sales Forecast by Application (2027-2032) & (K Sqm)
Table 80. Global Polyurethane Under-Ballast Mats Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 81. Getzner Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors
Table 82. Getzner Polyurethane Under-Ballast Mats Product Portfolios and Specifications
Table 83. Getzner Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 84. Getzner Main Business
Table 85. Getzner Latest Developments

Table 86. KRAIBURG Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 87. KRAIBURG Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 88. KRAIBURG Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 89. KRAIBURG Main Business

Table 90. KRAIBURG Latest Developments

Table 91. GERB Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 92. GERB Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 93. GERB Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 94. GERB Main Business

Table 95. GERB Latest Developments

Table 96. Trackelast Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 97. Trackelast Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 98. Trackelast Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 99. Trackelast Main Business

Table 100. Trackelast Latest Developments

Table 101. Altraix Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 102. Altraix Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 103. Altraix Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 104. Altraix Main Business

Table 105. Altraix Latest Developments

Table 106. HBT-ISOL Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 107. HBT-ISOL Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 108. HBT-ISOL Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 109. HBT-ISOL Main Business

Table 110. HBT-ISOL Latest Developments

Table 111. TINES Rail Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 112. TINES Rail Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 113. TINES Rail Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 114. TINES Rail Main Business

Table 115. TINES Rail Latest Developments

Table 116. Shandong Aozo New Materials Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 117. Shandong Aozo New Materials Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 118. Shandong Aozo New Materials Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 119. Shandong Aozo New Materials Main Business

Table 120. Shandong Aozo New Materials Latest Developments

Table 121. Guangdong Weibote Acoustic Technology Basic Information, Polyurethane Under-Ballast Mats Manufacturing Base, Sales Area and Its Competitors

Table 122. Guangdong Weibote Acoustic Technology Polyurethane Under-Ballast Mats Product Portfolios and Specifications

Table 123. Guangdong Weibote Acoustic Technology Polyurethane Under-Ballast Mats Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 124. Guangdong Weibote Acoustic Technology Main Business

Table 125. Guangdong Weibote Acoustic Technology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Polyurethane Under-Ballast Mats

Figure 2. Polyurethane Under-Ballast Mats Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Polyurethane Under-Ballast Mats Sales Growth Rate 2021-2032 (K Sqm)

Figure 7. Global Polyurethane Under-Ballast Mats Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Polyurethane Under-Ballast Mats Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Polyurethane Under-Ballast Mats Sales Market Share by Country/Region (2025)

Figure 10. Polyurethane Under-Ballast Mats Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Thickness <15mm

Figure 12. Product Picture of Thickness 15mm–25mm

Figure 13. Product Picture of Thickness >25mm

Figure 14. Global Polyurethane Under-Ballast Mats Sales Market Share by Type in 2026

Figure 15. Global Polyurethane Under-Ballast Mats Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of <0.02 N/mm³

Figure 17. Product Picture of 0.02~0.06 N/mm³

Figure 18. Product Picture of >0.06 N/mm³

Figure 19. Global Polyurethane Under-Ballast Mats Sales Market Share by Bedding Modulus in 2026

Figure 20. Global Polyurethane Under-Ballast Mats Revenue Market Share by Bedding Modulus (2021-2026)

Figure 21. Polyurethane Under-Ballast Mats Consumed in Railway

Figure 22. Global Polyurethane Under-Ballast Mats Market: Railway (2021-2026) & (K Sqm)

Figure 23. Polyurethane Under-Ballast Mats Consumed in Subway

Figure 24. Global Polyurethane Under-Ballast Mats Market: Subway (2021-2026) & (K Sqm)

Figure 25. Polyurethane Under-Ballast Mats Consumed in Others

Figure 26. Global Polyurethane Under-Ballast Mats Market: Others (2021-2026) & (K Sqm)

Figure 27. Global Polyurethane Under-Ballast Mats Sale Market Share by Application (2025)

Figure 28. Global Polyurethane Under-Ballast Mats Revenue Market Share by Application in 2025

Figure 29. Polyurethane Under-Ballast Mats Sales by Company in 2025 (K Sqm)

Figure 30. Global Polyurethane Under-Ballast Mats Sales Market Share by Company in 2025

Figure 31. Polyurethane Under-Ballast Mats Revenue by Company in 2025 (\$ millions)

Figure 32. Global Polyurethane Under-Ballast Mats Revenue Market Share by Company in 2025

Figure 33. Global Polyurethane Under-Ballast Mats Sales Market Share by Geographic Region (2021-2026)

Figure 34. Global Polyurethane Under-Ballast Mats Revenue Market Share by Geographic Region in 2025

Figure 35. Americas Polyurethane Under-Ballast Mats Sales 2021-2026 (K Sqm)

Figure 36. Americas Polyurethane Under-Ballast Mats Revenue 2021-2026 (\$ millions)

Figure 37. APAC Polyurethane Under-Ballast Mats Sales 2021-2026 (K Sqm)

Figure 38. APAC Polyurethane Under-Ballast Mats Revenue 2021-2026 (\$ millions)

Figure 39. Europe Polyurethane Under-Ballast Mats Sales 2021-2026 (K Sqm)

Figure 40. Europe Polyurethane Under-Ballast Mats Revenue 2021-2026 (\$ millions)

Figure 41. Middle East & Africa Polyurethane Under-Ballast Mats Sales 2021-2026 (K Sqm)

Figure 42. Middle East & Africa Polyurethane Under-Ballast Mats Revenue 2021-2026 (\$ millions)

Figure 43. Americas Polyurethane Under-Ballast Mats Sales Market Share by Country in 2025

Figure 44. Americas Polyurethane Under-Ballast Mats Revenue Market Share by Country (2021-2026)

Figure 45. Americas Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)

Figure 46. Americas Polyurethane Under-Ballast Mats Sales Market Share by Application (2021-2026)

Figure 47. United States Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 48. Canada Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 49. Mexico Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 50. Brazil Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 51. APAC Polyurethane Under-Ballast Mats Sales Market Share by Region in 2025

Figure 52. APAC Polyurethane Under-Ballast Mats Revenue Market Share by Region (2021-2026)

Figure 53. APAC Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)

Figure 54. APAC Polyurethane Under-Ballast Mats Sales Market Share by Application (2021-2026)

Figure 55. China Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 56. Japan Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 57. South Korea Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 58. Southeast Asia Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 59. India Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 60. Australia Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 61. China Taiwan Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 62. Europe Polyurethane Under-Ballast Mats Sales Market Share by Country in 2025

Figure 63. Europe Polyurethane Under-Ballast Mats Revenue Market Share by Country (2021-2026)

Figure 64. Europe Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)

Figure 65. Europe Polyurethane Under-Ballast Mats Sales Market Share by Application (2021-2026)

Figure 66. Germany Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 67. France Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 68. UK Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$

millions)

Figure 69. Italy Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 70. Russia Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 71. Middle East & Africa Polyurethane Under-Ballast Mats Sales Market Share by Country (2021-2026)

Figure 72. Middle East & Africa Polyurethane Under-Ballast Mats Sales Market Share by Type (2021-2026)

Figure 73. Middle East & Africa Polyurethane Under-Ballast Mats Sales Market Share by Application (2021-2026)

Figure 74. Egypt Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 75. South Africa Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 76. Israel Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 77. Turkey Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 78. GCC Countries Polyurethane Under-Ballast Mats Revenue Growth 2021-2026 (\$ millions)

Figure 79. Manufacturing Cost Structure Analysis of Polyurethane Under-Ballast Mats in 2026

Figure 80. Manufacturing Process Analysis of Polyurethane Under-Ballast Mats

Figure 81. Industry Chain Structure of Polyurethane Under-Ballast Mats

Figure 82. Channels of Distribution

Figure 83. Global Polyurethane Under-Ballast Mats Sales Market Forecast by Region (2027-2032)

Figure 84. Global Polyurethane Under-Ballast Mats Revenue Market Share Forecast by Region (2027-2032)

Figure 85. Global Polyurethane Under-Ballast Mats Sales Market Share Forecast by Type (2027-2032)

Figure 86. Global Polyurethane Under-Ballast Mats Revenue Market Share Forecast by Type (2027-2032)

Figure 87. Global Polyurethane Under-Ballast Mats Sales Market Share Forecast by Application (2027-2032)

Figure 88. Global Polyurethane Under-Ballast Mats Revenue Market Share Forecast by Application (2027-2032)

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