

# Polyurethane Tire Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (PPG Polyurethane, PTMEG Polyurethane), By Sales Channel (Original Equipment Manufacturer, Aftermarket), By Application

<https://marketpublishers.com/r/PFAA5FA845F5EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: PFAA5FA845F5EN

## Abstracts

The Polyurethane Tire Market is valued at USD 2 billion in 2025 and is projected to grow at a CAGR of 8.4% to reach USD 4.1 billion by 2034. The global polyurethane tire market is gaining traction, driven by the increasing demand for lightweight, durable, and puncture-resistant tires across various industries. Unlike conventional rubber tires, polyurethane (PU) tires offer superior wear resistance, load-bearing capacity, and fuel efficiency, making them ideal for industrial vehicles, bicycles, and autonomous transport systems. These tires are commonly used in material handling equipment, airport ground support vehicles, and military applications due to their ability to withstand harsh conditions. The rise of electric vehicles (EVs) and automated guided vehicles (AGVs) in logistics and warehousing is further boosting demand, as PU tires enhance operational efficiency and reduce maintenance costs. Additionally, sustainability initiatives have prompted manufacturers to develop eco-friendly PU tires with recyclable materials, aligning with the growing emphasis on green mobility solutions. The polyurethane tire market witnessed significant developments, particularly in industrial automation and sustainable material innovation. With the rapid expansion of e-commerce and logistics, demand for PU tires in material handling equipment surged, improving warehouse efficiency and safety. Manufacturers introduced next-generation PU tires with enhanced traction, shock absorption, and anti-slip properties, catering to the evolving needs of heavy-duty applications. Additionally, the automotive sector explored the feasibility of PU tires in electric vehicles, as they contribute to lower rolling resistance and improved energy efficiency. The trend toward airless and flat-free tires gained momentum, reducing downtime and increasing operational reliability in industrial and commercial

applications. Research and development efforts focused on bio-based polyurethane alternatives to reduce reliance on petroleum-derived components, reflecting the industry's commitment to sustainability. The polyurethane tire market is expected to see further advancements in smart tire technology and material innovations. The integration of embedded sensors for real-time performance monitoring and predictive maintenance will enhance the reliability and lifespan of PU tires, particularly in fleet and industrial operations. As sustainability concerns continue to shape industry strategies, manufacturers will prioritize recyclable and biodegradable polyurethane materials, reducing environmental impact. The adoption of PU tires in urban mobility solutions, including electric scooters, bicycles, and autonomous delivery vehicles, is expected to grow as cities push for cleaner and more efficient transport alternatives. Additionally, advancements in nanotechnology and 3D printing will enable the production of custom-designed PU tires with enhanced durability and performance characteristics. Emerging markets in Asia-Pacific and Latin America are likely to see increased adoption of PU tires, driven by rapid industrialization and infrastructure development, further propelling market expansion.

### Key Insights Polyurethane Tire Market

**Rising Demand for Airless and Flat-Free Tires:** The adoption of airless PU tires is growing in industrial, commercial, and mobility applications due to their superior puncture resistance, reducing maintenance costs and downtime.

**Integration of Smart Tire Technology:** PU tires with embedded sensors for real-time tracking of wear, pressure, and performance are enhancing operational efficiency in fleet management and industrial automation.

**Growth in Sustainable and Recyclable Polyurethane Tires:** Manufacturers are developing eco-friendly PU tires using bio-based and recyclable materials to meet sustainability goals and reduce carbon footprints.

**Expansion in Urban Mobility Solutions:** The increasing adoption of electric scooters, bicycles, and autonomous delivery vehicles is driving demand for PU tires, offering lightweight and durable alternatives to traditional rubber tires.

**Advancements in 3D-Printed Polyurethane Tires:** The rise of 3D printing technology is enabling the customization of PU tires with optimized tread designs and enhanced durability, improving performance across diverse applications.

**Rising Industrial Automation and Logistics Growth:** The expansion of automated warehouses, logistics hubs, and AGV-based operations is driving demand for PU tires that offer durability, efficiency, and minimal maintenance.

**Increasing Popularity of Electric Vehicles (EVs):** The growing EV market is boosting interest in polyurethane tires due to their lightweight nature, low rolling resistance, and energy efficiency, improving vehicle range and performance.

**Focus on Sustainable and Eco-Friendly Solutions:** The push for sustainable mobility and material innovation is encouraging the development of recyclable PU tires, reducing environmental impact while maintaining performance standards.

**Technological Advancements in Polyurethane Materials:** Continuous research in polymer science is leading to stronger, more flexible, and highly durable PU tires, expanding their applications across industrial, commercial, and urban mobility sectors.

**High Initial Production Costs:** The cost of manufacturing high-performance polyurethane tires, especially those incorporating smart sensors or sustainable materials, remains a challenge, potentially limiting widespread adoption in cost-sensitive markets.

## Polyurethane Tire Market Segmentation

### By Type

PPG Polyurethane

PTMEG Polyurethane

### By Sales Channel

Original Equipment Manufacturer

Aftermarket

## By Application

Forklifts

Overhead Conveyor Systems

Industrial Carts

Railroads

Industrial Washer Systems

Rollforming Machinery

Elevators

Hyperloops

## Key Companies Analysed

Trelleborg AB

Amerityre Corporation

Stellana AB

Thombert Inc.

Uremet Corporation

Apexway Products Corp

TVS Group

Albion Casters

Softex Industrial Products Pvt. Ltd.

Bermar Associates Inc.

FallLine Corporation

Satyanarayan Rubber And Plastic Industries

T. Banerjee Industries

Jyoti Architectural Products Private Limited

Aleader Tire & Wheel Industrial Co. Ltd.

BASF SE

Dow Inc.

Saudi Basic Industries Corp

LyondellBasell Industries NV

3M Company.

China National Chemical Corp.

Sinopec Group

DuPont de Nemours Inc.

Mitsubishi Chemical Holdings Corp.

Sumitomo Chemical Co Ltd.

Acrotech Inc.

Advanced Urethane Technologies Inc.

American Urethane Inc.

Argonics Inc.

BNL Industries Inc.

Casters of Amarillo Inc.

Century Rubber & Cables Industries

Custom Rubber Corp.

Dura-Belt Inc. .

## Polyurethane Tire Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Polyurethane Tire Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Polyurethane Tire market data and outlook to 2034

United States

Canada

Mexico

Europe — Polyurethane Tire market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Polyurethane Tire market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Polyurethane Tire market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Polyurethane Tire market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Polyurethane Tire value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Polyurethane Tire industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Polyurethane Tire Market Report

Global Polyurethane Tire market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Polyurethane Tire trade, costs, and supply chains

Polyurethane Tire market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Polyurethane Tire market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Polyurethane Tire market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Polyurethane Tire supply chain analysis

Polyurethane Tire trade analysis, Polyurethane Tire market price analysis, and Polyurethane Tire supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Polyurethane Tire market news and developments

#### Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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