

Elastomers: Applications and Global Markets

Market Research Report | 2025-12-03 | 153 pages | BCC Research

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Report description:

Description

Report Scope

The report details the various types, processes and end uses of elastomers. Estimated values are based on manufacturers' total revenue. Projected revenue values are in constant U.S. dollars and are unadjusted for inflation. The report also contains comprehensive information about elastomers and their users.

The global elastomers market is segmented into the following categories:

- By type (thermosets and thermoplastics).
- By process (injection molding, extrusion, adhesive, coating and others).
- By end use (automotive, industrial, medical, consumer goods, building and construction and others).
- By region (North America, Europe, Asia-Pacific, South America, and the Middle East and Africa).

Report Includes

- 117 data tables and 43 additional tables
- Overview and an analysis of the global market for elastomers
- In-depth analysis of global market trends, featuring historical revenue data for 2024, estimated figures for 2025, as well as forecasts for 2029. This analysis includes projections of compound annual growth rates (CAGRs) through 2030
- Evaluation of the current market size and revenue growth prospects specific to the elastomers, accompanied by a market share analysis by type, process, end user and region
- Analysis of current and future demand in the elastomers market, along with a detailed analysis of the competitive environment, market regulations and reimbursement practices
- Analysis of drivers, challenges and opportunities affecting market growth
- Insights derived from Porter's Five Forces model, as well as global supply chain analysis
- Coverage of evolving technologies, the current and future market potential, R&D activities, growth strategies, new product pipeline, regulatory framework and reimbursement scenarios

- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, as well as the ESG risk ratings and practices of leading companies
- Market share analysis of the key market participants in the elastomers industry, along with their research priorities, product portfolios, global rankings and company competitive landscape
- Profiles of the leading companies, including BASF SE, Dow, LG Chem, Covestro AG and Arkema

Executive Summary

Summary:

The global market for elastomers was valued at \$112.7 billion in 2024. The market is projected to grow from \$120.4 billion in 2025 to reach \$177.7 billion by 2030, at a compound annual growth rate (CAGR) of 8.1% from 2025 to 2030.

Increased production of lightweight automotive components, EVs, medical and consumer electronics and industrial goods offers novel prospects for elastomer manufacturing industries. Technological advances in medical practices, automobiles, consumer electronics, 3D printing and manufacturing techniques are also creating new opportunities for elastomers. For instance, using lightweight elastomers directly supports automakers' sustainability objectives by reducing fuel consumption and battery drain. Increased application and scientific research into elastomers for aerospace, aircraft, passenger vehicles, EVs, rails, ships, electric buses and lightweight commercial vehicles are creating new business opportunities for the manufacturing industry in developing nations.

Market Dynamics and Growth Factors

Advanced medical treatments and the need for biocompatible, flexible rubber drive demand for elastomers globally. Elastomer manufacturers are creating product lines in response to demand for medical devices. Biocompatible elastomers are used in the production of electrocardiography (ECG) sensors, implantable smart patches, disposable medical devices, catheter balloons, vascular grafts, IV tubes, drainage catheters and endotracheal tubes.

Demand for EVs and lightweight commercial and passenger vehicles is also impacting the elastomers market positively. Elastomers can replace some metal and ceramic compounds in vehicles, which helps manufacturers reduce their carbon footprint and meet sustainability goals.

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Importance of Elastomers

Chapter 3 Market Dynamics

Key Takeaways

Market Dynamics Snapshot

Drivers

Demand for Biocompatible Elastomers in the Medical Industry

Demand for EVs and Lightweight Automotive Components

Restraints

Technical Complexity

Recycling and Repairability Issues

Opportunities

Demand for Castor Oil Plant-based Elastomers

Use of Elastomers in 3D Printing Technology

Challenges

Stringent Environmental Regulations on Plastics Consumption

Volatility in Raw Material Prices

Chapter 4 Emerging Technologies and Developments

Key Takeaways

Newest Technology

Evolution of Vitrimer Polymers Technology

Development of Polyolefin Catalyst

AI Systems for TPPU Production

Chapter 5 Supply Chain Analysis of the Global Elastomers Markets

Supply Chain Analysis of Global Elastomers Markets

Manufacturers

Sales

Chapter 6 Market Segmentation Analysis

Key Takeaways

Segmentation Breakdown

Market Analysis by Type

Thermosets

Thermoplastics

Market Analysis by Process

Injection Molding

Extrusion

Adhesive

Coating

Others

Market Analysis by End Use

Automotive

Industrial

Medical

Consumer Goods

Building and Construction

Others

Geographic Breakdown

Key Takeaways

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Market Analysis by Region

North America

Asia-Pacific

Europe

South America

Middle East and Africa

Chapter 7 Competitive Intelligence

Industry Structure

Elastomers Market: Company Share Analysis

Strategic Analysis

Chapter 8 Sustainability in Elastomers: ESG Perspective

Importance of ESG in the Elastomers Market

ESG Practices in the Elastomers Market

Current Status of ESG

Risk Scale, Exposure Scale and Management Scale

Future of ESG: Emerging Trends and Opportunities

Concluding Remarks

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Methodology

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References

Abbreviations

Company Profile

ARKEMA

ASAHI KASEI CORP.

BASF

COVESTRO AG

DOW

DUPONT

EVONIK INDUSTRIES AG

EXXON MOBIL CORP.

HUNTSMAN INTERNATIONAL LLC.

INNOVATIVE SILICONES

LANXESS

LG CHEM

LYONDELLBASELL INDUSTRIES HOLDINGS B.V.

STOCKWELL ELASTOMERICs

URM

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