

Global Bio-polybutadiene Market Size Study by Production Method (Bio-based Synthesis, Conventional Petrochemical Processes), Application (Automotive Tires, Adhesives and Sealants, Consumer Goods, Industrial Products), End User Sector (Automotive Industry, Construction Industry, Consumer Electronics, Healthcare), Formulation Type (Solid, Liquid), Quality Grade (Standard Grade, High-performance Grade), and Regional Forecasts 2022-2032

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Abstracts

The Global Bio-polybutadiene Market, valued at approximately USD 0.83 billion in 2023, is projected to grow at an impressive compound annual growth rate (CAGR) of 10.94% over the forecast period 2024-2032. Bio-polybutadiene is gaining traction as a sustainable and high-performance elastomer, integral to industries such as automotive, consumer goods, and healthcare. Derived through advanced bio-based synthesis or conventional petrochemical processes, bio-polybutadiene provides a critical solution to the demand for environmentally friendly and durable materials.

The growing shift towards sustainability and the adoption of bio-based solutions is reshaping the landscape of polymer industries. Bio-polybutadiene, offering enhanced mechanical properties and reduced environmental footprints, is finding increasing utility in automotive tires, adhesives, and sealants. The rapid advancement in bio-synthesis technologies has further streamlined production, enabling the material to meet stringent quality requirements for high-performance applications, including healthcare and

consumer electronics.

The burgeoning adoption of bio-polybutadiene is fueled by its multifaceted applications and significant advancements in production methodologies. The automotive industry's drive for lightweight, energy-efficient, and durable materials positions bio-polybutadiene as a critical resource. Additionally, its compatibility with high-performance grades makes it a preferred choice for industrial and healthcare applications. However, the market's expansion faces challenges, including fluctuating raw material costs and the complexity of scaling bio-based production processes to meet increasing demand.

Regionally, the Bio-polybutadiene Market exhibits promising growth patterns. North America dominates the market with robust R&D investments and the presence of major players. Europe follows, benefiting from stringent sustainability mandates and a strong industrial base. Meanwhile, the Asia-Pacific region is anticipated to experience the fastest growth, driven by rapid industrialization, an expanding automotive sector, and heightened environmental awareness in countries like China and India.

Major market players included in this report are:

BASF SE

Synthos S.A.

LANXESS AG

Trinseo S.A.

Dow Inc.

SABIC

Kumho Petrochemical Co., Ltd.

Evonik Industries AG

LG Chem Ltd.

Asahi Kasei Corporation

Nizhnekamskneftekhim PJSC

Goodyear Tire & Rubber Company

Sumitomo Chemical Co., Ltd.

Versalis S.p.A.

Bridgestone Corporation

The detailed segments and sub-segment of the market are explained below:

By Production Method:

Bio-based Synthesis

Conventional Petrochemical Processes

By Application:

Automotive Tires

Adhesives and Sealants

Consumer Goods

Industrial Products

By End User Sector:

Automotive Industry

Construction Industry

Consumer Electronics

Healthcare

By Formulation Type:

Solid

Liquid

By Quality Grade:

Standard Grade

High-performance Grade

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market estimates and forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscapes with country-level insights.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Comprehensive evaluation of competitive structures and market dynamics.

Demand-side and supply-side analysis of the market.

Contents

CHAPTER 1. GLOBAL BIO-POLYBUTADIENE MARKET EXECUTIVE SUMMARY

- 1.1. Global Bio-polybutadiene Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Production Method
 - 1.3.1.1. Bio-based Synthesis
 - 1.3.1.2. Conventional Petrochemical Processes
 - 1.3.2. By Application
 - 1.3.2.1. Automotive Tires
 - 1.3.2.2. Adhesives and Sealants
 - 1.3.2.3. Consumer Goods
 - 1.3.2.4. Industrial Products
 - 1.3.3. By End User Sector
 - 1.3.3.1. Automotive Industry
 - 1.3.3.2. Construction Industry
 - 1.3.3.3. Consumer Electronics
 - 1.3.3.4. Healthcare
 - 1.3.4. By Formulation Type
 - 1.3.4.1. Solid
 - 1.3.4.2. Liquid
 - 1.3.5. By Quality Grade
 - 1.3.5.1. Standard Grade
 - 1.3.5.2. High-performance Grade
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL BIO-POLYBUTADIENE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis

- 2.3.3.1. Availability
- 2.3.3.2. Infrastructure
- 2.3.3.3. Regulatory Environment
- 2.3.3.4. Market Competition
- 2.3.3.5. Economic Viability (Consumer's Perspective)
- 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL BIO-POLYBUTADIENE MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Increasing Demand in Key Applications
 - 3.1.2. Technological Advancements in Production Methodologies
 - 3.1.3. Regulatory Support for Sustainable Materials
- 3.2. Market Challenges
 - 3.2.1. Fluctuating Raw Material Costs
 - 3.2.2. Complexity in Scaling Production Processes
- 3.3. Market Opportunities
 - 3.3.1. Expansion in Emerging Markets
 - 3.3.2. Development of Eco-Friendly Formulations
 - 3.3.3. Growth in High-performance Applications

CHAPTER 4. GLOBAL BIO-POLYBUTADIENE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY PRODUCTION METHOD 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Bio-polybutadiene Market: Production Method Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 5.2.1. Bio-based Synthesis
 - 5.2.2. Conventional Petrochemical Processes

CHAPTER 6. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Bio-polybutadiene Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 6.2.1. Automotive Tires
 - 6.2.2. Adhesives and Sealants
 - 6.2.3. Consumer Goods
 - 6.2.4. Industrial Products

CHAPTER 7. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY END USER SECTOR 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Bio-polybutadiene Market: End User Sector Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 7.2.1. Automotive Industry

- 7.2.2. Construction Industry
- 7.2.3. Consumer Electronics
- 7.2.4. Healthcare

CHAPTER 8. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY FORMULATION TYPE 2022-2032

- 8.1. Segment Dashboard
- 8.2. Global Bio-polybutadiene Market: Formulation Type Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 8.2.1. Solid
 - 8.2.2. Liquid

CHAPTER 9. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY QUALITY GRADE 2022-2032

- 9.1. Segment Dashboard
- 9.2. Global Bio-polybutadiene Market: Quality Grade Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 9.2.1. Standard Grade
 - 9.2.2. High-performance Grade

CHAPTER 10. GLOBAL BIO-POLYBUTADIENE MARKET SIZE & FORECASTS BY REGION 2022-2032

- 10.1. North America Bio-polybutadiene Market
 - 10.1.1. U.S. Bio-polybutadiene Market
 - 10.1.1.1. Applications Breakdown Size & Forecasts, 2022-2032
 - 10.1.1.2. Production Method Breakdown Size & Forecasts, 2022-2032
 - 10.1.2. Canada Bio-polybutadiene Market
- 10.2. Europe Bio-polybutadiene Market
 - 10.2.1. UK Bio-polybutadiene Market
 - 10.2.2. Germany Bio-polybutadiene Market
 - 10.2.3. France Bio-polybutadiene Market
 - 10.2.4. Spain Bio-polybutadiene Market
 - 10.2.5. Italy Bio-polybutadiene Market
 - 10.2.6. Rest of Europe Bio-polybutadiene Market
- 10.3. Asia-Pacific Bio-polybutadiene Market
 - 10.3.1. China Bio-polybutadiene Market

- 10.3.2. India Bio-polybutadiene Market
- 10.3.3. Japan Bio-polybutadiene Market
- 10.3.4. Australia Bio-polybutadiene Market
- 10.3.5. South Korea Bio-polybutadiene Market
- 10.3.6. Rest of Asia Pacific Bio-polybutadiene Market
- 10.4. Latin America Bio-polybutadiene Market
 - 10.4.1. Brazil Bio-polybutadiene Market
 - 10.4.2. Mexico Bio-polybutadiene Market
 - 10.4.3. Rest of Latin America Bio-polybutadiene Market
- 10.5. Middle East & Africa Bio-polybutadiene Market
 - 10.5.1. Saudi Arabia Bio-polybutadiene Market
 - 10.5.2. South Africa Bio-polybutadiene Market
 - 10.5.3. Rest of Middle East & Africa Bio-polybutadiene Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. BASF SE
 - 11.1.2. Synthos S.A.
 - 11.1.3. LANXESS AG
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. BASF SE
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. Synthos S.A.
 - 11.3.3. LANXESS AG
 - 11.3.4. Trinseo S.A.
 - 11.3.5. Dow Inc.
 - 11.3.6. SABIC
 - 11.3.7. Kumho Petrochemical Co., Ltd.
 - 11.3.8. Evonik Industries AG
 - 11.3.9. LG Chem Ltd.
 - 11.3.10. Asahi Kasei Corporation
 - 11.3.11. Nizhnekamskneftekhim PJSC
 - 11.3.12. Goodyear Tire & Rubber Company

11.3.13. Sumitomo Chemical Co., Ltd.

11.3.14. Versalis S.p.A.

11.3.15. Bridgestone Corporation

CHAPTER 12. RESEARCH PROCESS

12.1. Research Process

12.1.1. Data Mining

12.1.2. Analysis

12.1.3. Market Estimation

12.1.4. Validation

12.1.5. Publishing

12.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Bio-polybutadiene Market, Report Scope

TABLE 2. Global Bio-polybutadiene Market Estimates & Forecasts by Region
2022-2032 (USD Million/Billion)

TABLE 3. Global Bio-polybutadiene Market Estimates & Forecasts by Production
Method 2022-2032 (USD Million/Billion)

TABLE 4. Global Bio-polybutadiene Market Estimates & Forecasts by Application
2022-2032 (USD Million/Billion)

TABLE 5. Global Bio-polybutadiene Market Estimates & Forecasts by End User Sector
2022-2032 (USD Million/Billion)

TABLE 6. Global Bio-polybutadiene Market Estimates & Forecasts by Formulation Type
2022-2032 (USD Million/Billion)

TABLE 7. Global Bio-polybutadiene Market Estimates & Forecasts by Quality Grade
2022-2032 (USD Million/Billion)

TABLE 8. Global Bio-polybutadiene Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 9. Global Bio-polybutadiene Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 10. Global Bio-polybutadiene Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 11. Global Bio-polybutadiene Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 12. Global Bio-polybutadiene Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 13. Global Bio-polybutadiene Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 14. Global Bio-polybutadiene Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 15. U.S. Bio-polybutadiene Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 16. U.S. Bio-polybutadiene Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 17. U.S. Bio-polybutadiene Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 18. Canada Bio-polybutadiene Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 19. Canada Bio-polybutadiene Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 20. Canada Bio-polybutadiene Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

.....

List Of Figures

LIST OF FIGURES

- FIG 1. Global Bio-polybutadiene Market, Research Methodology
- FIG 2. Global Bio-polybutadiene Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Bio-polybutadiene Market, Key Trends 2023
- FIG 5. Global Bio-polybutadiene Market, Growth Prospects 2022-2032
- FIG 6. Global Bio-polybutadiene Market, Porter's 5 Force Model
- FIG 7. Global Bio-polybutadiene Market, PESTEL Analysis
- FIG 8. Global Bio-polybutadiene Market, Value Chain Analysis
- FIG 9. Global Bio-polybutadiene Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Bio-polybutadiene Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Bio-polybutadiene Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Bio-polybutadiene Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global Bio-polybutadiene Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global Bio-polybutadiene Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Bio-polybutadiene Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe Bio-polybutadiene Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia Pacific Bio-polybutadiene Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America Bio-polybutadiene Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa Bio-polybutadiene Market 2022 & 2032 (USD Million/Billion)
- FIG 20. Global Bio-polybutadiene Market, Company Market Share Analysis (2023)

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This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

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