

Polylactic Acid Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, By Raw Material (Corn, Cassava, Sugarcane/Sugar Beet), By Application (Rigid Thermoforms, Films & Sheets, Bottles), By End-Use Industry (Packaging, Consumer Goods, Agriculture, Textile, Bio-Medical, Others (Automotive & Transportation, Electronics)), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Polylactic Acid Market, valued at USD 1715.93 Million in 2024, is projected to experience a CAGR of 20.66% to reach USD 5295.06 Million by 2030. Polylactic Acid (PLA) is a biodegradable and bioactive thermoplastic polymer derived from renewable resources such as corn starch or sugarcane, offering a sustainable alternative to conventional petroleum-based plastics. The market's expansion is fundamentally driven by increasing global demand for sustainable packaging solutions, growing consumer awareness regarding environmental impact, and stringent government regulations aimed at reducing plastic waste.

Key Market Drivers

The global Polylactic Acid market expansion is significantly propelled by rising environmental sustainability imperatives, intrinsically linked to increasing consumer preference for bio-based products. As environmental concerns grow, consumers actively seek products aligning with their values, driving demand for sustainable alternatives like PLA. This behavioral shift creates a substantial market pull for materials with a reduced ecological footprint, prompting manufacturers to integrate bio-based polymers. According to the Plastics Industry Association, in a 2023 study, about half of consumers stated a willingness to pay more for bioplastics over traditional plastics. This broader commitment is supported by direct investments in the PLA supply chain; according to Corbion's Annual Report 2023, published in December 2022, the company allocated EUR50.5 million towards expanding lactic acid manufacturing capacity, a key PLA precursor.

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Key Market Challenges

The challenging factor identified in the overview for the Global Polylactic Acid Market is its comparatively higher production cost relative to traditional plastics. This elevated cost significantly limits PLA's widespread adoption across diverse, price-sensitive applications. Businesses often prioritize cost efficiency, making the upfront investment in PLA less attractive compared to more economical conventional plastic alternatives. This price disparity directly curtails market expansion, as potential users in sectors like packaging and consumer goods frequently opt for cheaper materials to maintain competitive pricing.

Key Market Trends

The market for Polylactic Acid is increasingly diversifying its application portfolio beyond traditional packaging, driven by a deeper understanding of PLA's material properties. This expansion sees PLA integrated into sectors like automotive and electronics, where its lightweight characteristics and reduced carbon footprint are highly valued for sustainability initiatives. For example, while packaging accounted for 45 percent, or 1.12 million tonnes, of the total bioplastics market in 2024 according to European Bioplastics, a significant shift is underway into more technical uses. This is evidenced by Mitsubishi Chemical's joint testing with Subaru, highlighted in its March 2025 R&D update, on high-heat PLA-PBAT composites for use in engine bay parts, showcasing advanced material integration in durable goods.

Key Market Players

- NatureWorks LLC
- Futerro PLA
- TotalEnergies Corbion bv
- Zhejiang Hisun Biomaterials Co., Ltd
- Jiangxi Keyuan Bio-Material Co., Ltd
- Shanghai Tong-jie-liang Biomaterials Co.,LTD
- Jilin COFCO biomaterials Co., Ltd., etc.
- Mitsubishi Chemical America, Inc
- Danimer Scientific, Inc.
- BASF SE
- UNITIKA LTD
- Galactic S.A

Report Scope:

In this report, the Global Polylactic Acid Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Polylactic Acid Market, By Raw Material:

- o Corn
- o Cassava
- o Sugarcane/Sugar Beet

- Polylactic Acid Market, By Application:

- o Rigid Thermoforms
- o Films & Sheets
- o Bottles

- Polylactic Acid Market, By End Use Industry:

- o Packaging
- o Consumer Goods
- o Agriculture
- o Textile
- o Bio-Medical
- o Others

- Polylactic Acid Market, By Region:

- o North America

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- United States
- Canada
- Mexico
- o Europe
- France
- United Kingdom
- Italy
- Germany
- Spain
- o Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Polylactic Acid Market.

Available Customizations:

Global Polylactic Acid Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations

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3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Voice of Customer
5. Global Polylactic Acid Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Raw Material (Corn, Cassava, Sugarcane/Sugar Beet)
 - 5.2.2. By Application (Rigid Thermoforms, Films & Sheets, Bottles)
 - 5.2.3. By End Use Industry (Packaging, Consumer Goods, Agriculture, Textile, Bio-Medical, Others)
 - 5.2.4. By Region
 - 5.2.5. By Company (2024)
 - 5.3. Market Map
6. North America Polylactic Acid Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Raw Material
 - 6.2.2. By Application
 - 6.2.3. By End Use Industry
 - 6.2.4. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Polylactic Acid Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Raw Material
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By End Use Industry
 - 6.3.2. Canada Polylactic Acid Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Raw Material
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By End Use Industry
 - 6.3.3. Mexico Polylactic Acid Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Raw Material
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By End Use Industry

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- 7. Europe Polylactic Acid Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Raw Material
 - 7.2.2. By Application
 - 7.2.3. By End Use Industry
 - 7.2.4. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany Polylactic Acid Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Raw Material
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By End Use Industry
 - 7.3.2. France Polylactic Acid Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Raw Material
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By End Use Industry
 - 7.3.3. United Kingdom Polylactic Acid Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Raw Material
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By End Use Industry
 - 7.3.4. Italy Polylactic Acid Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Raw Material
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By End Use Industry
 - 7.3.5. Spain Polylactic Acid Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Raw Material
 - 7.3.5.2.2. By Application
 - 7.3.5.2.3. By End Use Industry
 - 8. Asia Pacific Polylactic Acid Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value

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- 8.2. Market Share & Forecast
 - 8.2.1. By Raw Material
 - 8.2.2. By Application
 - 8.2.3. By End Use Industry
 - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Polylactic Acid Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Raw Material
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By End Use Industry
 - 8.3.2. India Polylactic Acid Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Raw Material
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By End Use Industry
 - 8.3.3. Japan Polylactic Acid Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Raw Material
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By End Use Industry
 - 8.3.4. South Korea Polylactic Acid Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Raw Material
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By End Use Industry
 - 8.3.5. Australia Polylactic Acid Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Raw Material
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By End Use Industry
- 9. Middle East & Africa Polylactic Acid Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Raw Material
 - 9.2.2. By Application

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- 9.2.3. By End Use Industry
- 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Polylactic Acid Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Raw Material
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By End Use Industry
 - 9.3.2. UAE Polylactic Acid Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Raw Material
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By End Use Industry
 - 9.3.3. South Africa Polylactic Acid Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Raw Material
 - 9.3.3.2.2. By Application
 - 9.3.3.2.3. By End Use Industry
- 10. South America Polylactic Acid Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Raw Material
 - 10.2.2. By Application
 - 10.2.3. By End Use Industry
 - 10.2.4. By Country
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil Polylactic Acid Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Raw Material
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By End Use Industry
 - 10.3.2. Colombia Polylactic Acid Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Raw Material
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By End Use Industry

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- 10.3.3. Argentina Polylactic Acid Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Raw Material
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By End Use Industry
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global Polylactic Acid Market: SWOT Analysis
- 14. Porter's Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. NatureWorks LLC
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
 - 15.2. Futerro PLA
 - 15.3. TotalEnergies Corbion bv
 - 15.4. Zhejiang Hisun Biomaterials Co., Ltd
 - 15.5. Jiangxi Keyuan Bio-Material Co., Ltd
 - 15.6. Shanghai Tong-jie-liang Biomaterials Co.,LTD
 - 15.7. Jilin COFCO biomaterials Co., Ltd., etc.
 - 15.8. Mitsubishi Chemical America, Inc
 - 15.9. Danimer Scientific, Inc.
 - 15.10. BASF SE
 - 15.11. UNITIKA LTD
 - 15.12. Galactic S.A
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

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