

Polylactic Acid Market Size, Share And Trends Analysis Report By End Use (Packaging, Agriculture, Transport, Electronics, Textile, Others), By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Polylactic Acid Market Growth & Trends

The global polylactic acid market size is expected to reach USD 2,709.61 million by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 26.6% from 2022 to 2030. The growth is mainly driven by the end-use industries such as agriculture, transport, and textile, the increasing popularity of quick-service restaurants, and changing consumer preferences that are fueling the growth of flexible packaging. The growing packaging sector is anticipated to create high opportunities for polylactic acid during the forecast period.

Packaging was the dominant end-use segment in 2022 and is estimated to continue its dominance over the forecast period. PLA is extensively used in packaging end-use products, including household care, food & beverage, and personal care products, among others. Growing consumer awareness regarding the need for sustainability, recyclability, and green packaging is expected to drive the global PLA demand during the forecast period.

In the automotive & transportation sector, several reforms in terms of component manufacturing are observed globally. For instance, vehicle interior components such as engine components, interior trim, and under the hood components are manufactured using lightweight substances to enhance performance and reduce vehicle weight. This

has led to an increasing need for sustainable bioplastic component manufacturing to increase the toughness and increase fuel economy, which, in turn, has led to the growing demand for polylactic acid. Rising demand for equipment and protective apparel due to the COVID-19 outbreak is anticipated to drive the inclusion of PLA in the medical and textile end-use segments.

The European PLA market is anticipated to witness substantial growth in the coming years, owing to various factors such as the presence of stringent environment-friendly laws and increasing environmental concerns among consumers. In addition, government initiatives such as the decision of the EU to minimize the overall consumption of single-use plastic products are anticipated to propel the demand for PLA over the forecast period.

Polylactic Acid Market Report Highlights

In 2021, packaging emerged as the largest end-use segment, contributing to over 36.7% share, owing to its wide usage in fresh food wrapping as well as manufacturing containers, jars, and bottles

In 2021, North America accounted for more than 42.4% share of the overall revenue owing to the mounting demand for 3D printing filaments, as well as the accessibility of raw materials, which are promoting the product growth regionally

In 2021, the U.S. dominated the regional polylactic acid market of the packaging end-use segment, contributing to 90.60% volume share, and is anticipated to maintain its dominance during the forecast period

In 2021, China led the Asia Pacific market with nearly 49% share in terms of revenue, which is anticipated to grow owing to the rising demand for the product in end-use areas, including automotive & transport, agriculture, appliances, electronics, and textile

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Methodology
- 1.2 Research Scope and Assumptions
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 Gvr's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Third Party Perspective
 - 1.3.5 Primary Research
- 1.4 Information Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation And Data Visualization
- 1.6 List To Data Sources
- 1.7 List Of Abbreviations

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Summary
- 2.2 Market Segmentation

CHAPTER 3 POLYLACTIC ACID MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Penetration & Growth Prospect Mapping
- 3.2 Value Chain Analysis
- 3.3 Raw Material Trend
 - 3.3.1 Comparative Analysis On Key Raw Materials
 - 3.3.2 South-East Asia Analysis On Key Raw Materials
 - 3.3.3 Philippines Analysis On Key Raw Materials
- 3.4 Price Trend Analysis, 2019 - 2030
 - 3.4.1 Major Factors Influencing Prices
 - 3.4.2 Price Trend Pla Vs Lactic Acid
 - 3.4.3 Regulatory Framework
 - 3.4.3.1 U.S. Fda
 - 3.4.4 Eu Commission
 - 3.4.5 Regulations For Bioplastics In The Flexible Packaging Market
 - 3.4.6 Asia Pacific Regulatory Framework

- 3.4.6.1 China
- 3.4.6.2 India
- 3.4.6.3 Japan
- 3.4.6.4 Philippines
- 3.4.6.5 Australia & New Zealand
- 3.4.7 Patent Analysis
- 3.5 Market Dynamics
 - 3.5.1 Market Driver Analysis
 - 3.5.1.1 Growing Demand For Bioplastics
 - 3.5.1.2 Growing Demand From Flexible Packaging Industry
 - 3.5.2 Market Restraint Analysis
 - 3.5.2.1 Price Competitiveness
- 3.6 Market Opportunity Analysis
- 3.7 Business Environment Analysis: Polylactic Acid Market
 - 3.7.1 Porter's Five Forces Analysis
 - 3.7.2 Pestel Analysis

CHAPTER 4 POLYLACTIC ACID MARKET: END-USE ESTIMATES & TREND ANALYSIS

- 4.1 Polylactic Acid Market: End-Use Movement Analysis, 2020 & 2028
- 4.2 Packaging
 - 4.2.1 Polylactic Acid Market Estimates And Forecasts, In Packaging, 2019 - 2030 (Tons) (USD Thousand)
- 4.3 Agriculture
 - 4.3.1 Polylactic Acid Market Estimates And Forecasts, In Agriculture, 2019 - 2030 (Tons) (USD Thousand)
- 4.4 Automotive & Transport
 - 4.4.1 Polylactic Acid Market Estimates And Forecasts, In Automotive & Transport, 2019 - 2030 (Tons) (USD Thousand)
- 4.5 Electronics
 - 4.5.1 Polylactic Acid Market Estimates And Forecasts, In Electronics, 2019 - 2030 (Tons) (USD Thousand)
- 4.6 Textile
 - 4.6.1 Polylactic Acid Market Estimates And Forecasts, In Textile, 2019 - 2030 (Tons) (USD Thousand)
- 4.7 Others
 - 4.7.1 Polylactic Acid Market Estimates And Forecasts, In Others, 2019 - 2030 (Tons) (USD Thousand)

CHAPTER 5 POLYLACTIC ACID MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

5.1 Polylactic Acid Market: Regional Movement Analysis, 2020 & 2028

5.2 North America

5.2.1 North America Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.2.2 North America Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.2.3 U.S.

5.2.3.1 U.S. Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.2.3.2 U.S. Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.2.4 Canada

5.2.4.1 Canada Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.2.4.2 Canada Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.2.5 Mexico

5.2.5.1 Mexico Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.2.5.2 Mexico Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.3 Europe

5.3.1 Europe Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.2 Europe Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.3.3 Germany

5.3.3.1 Germany Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.3.2 Germany Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.3.4 Uk

5.3.4.1 Uk Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.4.2 Uk Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030

(Tons) (USD Thousand)

5.3.5 France

5.3.5.1 France Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.5.2 France Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.3.6 Italy

5.3.6.1 Italy Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.6.2 Italy Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.3.7 Netherlands

5.3.7.1 Netherlands Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.3.7.2 Netherlands Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4 Asia Pacific

5.4.1 Asia Pacific Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.2 Asia Pacific Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.3 China

5.4.3.1 China Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.3.2 China Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.4 India

5.4.4.1 India Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.4.2 India Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.5 Japan

5.4.5.1 Japan Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.5.2 Japan Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.6 Indonesia

5.4.6.1 Indonesia Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.6.2 Indonesia Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.7 Malaysia

5.4.7.1 Malaysia Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.7.2 Malaysia Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.4.8 Philippines

5.4.8.1 Philippines Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.4.8.2 Philippines Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.5 Central & South America

5.5.1 Central & South America Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.5.2 Central & South America Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.5.3 Brazil

5.5.3.1 Brazil Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.5.3.2 Brazil Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

5.6 Middle East & Africa

5.6.1 Middle East & Africa Polylactic Acid Market Estimates And Forecasts, 2019 - 2030 (Tons) (USD Thousand)

5.6.2 Middle East & Africa Polylactic Acid Market Estimates And Forecasts, By End-Use, 2019 - 2030 (Tons) (USD Thousand)

CHAPTER 6 COMPETITIVE LANDSCAPE

6.1 Key Global Players & Recent Developments & Their Impact On The Industry

6.2 Key Company/Competition Categorization

6.3 Vendor Landscape

6.3.1 List Of Key Distributors & Channel Partners

6.3.2 List Of Potential End-Users

6.4 Prominent Companies Competition Dashboard Analysis

6.5 Production Capacity Analysis By Manufacturer, 2019

6.6 Availability Of Alternatives Feedstocks (Cellulosic Raw Materials)

CHAPTER 7 COMPANY PROFILES

7.1 Total Corbion Pla

7.1.1 Company Overview

7.1.2 Product Benchmarking

7.1.3 Strategic Initiatives

7.2 NatureWorks LLC.

7.2.1 Company Overview

7.2.2 Product Benchmarking

7.2.3 Strategic Initiatives

7.3 SUPLA(JIANGSU SUPLA BIOPLASTICS CO., LTD.)

7.3.1 Company Overview

7.3.2 Product Benchmarking

7.4 Futerro

7.4.1 Company Overview

7.4.2 Product Benchmarking

7.5 COFCO

7.5.1 Company Overview

7.5.2 Product Benchmarking

7.6 Jiangxi Keyuan Bio-Material Co., Ltd.

7.6.1 Company Overview

7.6.2 Product Benchmarking

7.6.3 Strategic Initiatives

7.7 Shanghai Tong-jie-liang Biomaterials Co., Ltd.

7.7.1 Company Overview

7.7.2 Product Benchmarking

7.8 Zhejiang Hisun Biomaterials Co., Ltd.

7.8.1 Company Overview

7.8.2 Product Benchmarking

List Of Tables

LIST OF TABLES

Table 1 List of Abbreviation

Table 2 Bioplastics classification

Table 3 Polylactic acid market estimates and forecasts, in packaging, 2019 - 2030 (Tons) (USD Thousand)

Table 4 Polylactic acid market estimates and forecasts, in agriculture, 2019 - 2030 (Tons) (USD Thousand)

Table 5 Polylactic acid market estimates and forecasts, in automotive & transport, 2019 - 2030 (Tons) (USD Thousand)

Table 6 Polylactic acid market estimates and forecasts, in electronics, 2019 - 2030 (Tons) (USD Thousand)

Table 7 Polylactic acid market estimates and forecasts, in textile, 2019 - 2030 (Tons) (USD Thousand)

Table 8 Polylactic acid market estimates and forecasts, in others, 2019 - 2030 (Tons) (USD Thousand)

Table 9 North America polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 10 North America polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 12 U.S. polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 13 U.S. polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 14 U.S. polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 15 Canada polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 16 Canada polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 18 Mexico polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 19 Mexico polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 20 Mexico polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 21 Europe polylactic acid market estimates and forecasts, 2019 - 2030 (Tons)

(USD Thousand)

Table 22 Europe polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 23 Europe polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 24 Germany polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 25 Germany polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 26 Germany polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 27 UK polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 28 UK polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 29 UK polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 30 France polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 31 France polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 32 France polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 33 Italy polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 34 Italy polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 35 Italy polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 36 Netherlands polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 37 Netherlands polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 38 Netherlands polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 39 Asia Pacific polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 40 Asia Pacific polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 41 Asia Pacific polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 42 China polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 43 China polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 44 China polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 45 India polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 46 India polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 47 .India polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 48 Japan polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 49 Japan polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 50 Japan polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 51 Indonesia polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 52 Indonesia polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 53 Indonesia polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 54 Malaysia polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 55 Malaysia polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 56 Malaysia polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 57 Philippines polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 58 Philippines polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 59 Philippines polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 60 Central & South America polylactic acid market estimates and forecasts, 2019

- 2030 (Tons) (USD Thousand)

Table 61 Central & South America polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 62 Central & South America polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 63 Brazil polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 64 Brazil polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 65 Brazil polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

Table 66 Middle East & Africa polylactic acid market estimates and forecasts, 2019 - 2030 (Tons) (USD Thousand)

Table 67 Middle East & Africa polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (Tons)

Table 68 Middle East & Africa polylactic acid market estimates and forecasts, by end-use, 2019 - 2030 (USD Thousand)

List Of Figures

LIST OF FIGURES

- Fig. 1 Information procurement
- Fig. 2 Primary research pattern
- Fig. 3 Primary Research Process
- Fig. 4 Market research approaches - Bottom-Up Approach
- Fig. 5 Market research approaches - Top-Down Approach
- Fig. 6 Market research approaches - Combined Approach
- Fig. 7 Global Polylactic Acid Market (USD Thousand), 2022
- Fig. 8 Polylactic Acid Market Segmentation
- Fig. 9 Polylactic acid market: penetration & growth prospect mapping
- Fig. 10 Polylactic acid market -Value chain analysis
- Fig. 11 Thailand export of sugar, (Thousand Metric Tons), 2021
- Fig. 12 Share of global cassava area, 2021
- Fig. 13 Diverse cassava production system in Southeast Asia
- Fig. 14 Price trend polylactic acid vs lactic acid (USD/Kg), 2019-2030
- Fig. 15 Material carbon footprint (kg of CO₂ per kg of polymer)
- Fig. 16 Porter's Five Forces Analysis: Polylactic Acid Market
- Fig. 17 PESTEL Analysis: Polylactic Acid Market
- Fig. 18 Polylactic acid market: End-use movement analysis, 2022 & 2030
- Fig. 19 Polylactic acid market: Regional movement analysis, 2022 & 2030
- Fig. 20 Competition Dashboard analysis

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