

Bio-polylactic Acid (PLA) - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Bio-polylactic Acid Market size is estimated at 2.59 million tons in 2025, and is expected to reach 6.45 million tons by 2030, at a CAGR of greater than 20% during the forecast period (2025-2030).

Due to the COVID-19 outbreak, nationwide lockdowns around the globe, disruption in manufacturing activities and supply chains, production halts and labor unavailability negatively impacted the market. However, the conditions started recovering in 2021, thereby restoring the growth trajectory of the market studied during the forecast period.

Key Highlights

- The primary factor driving the market's growth is favorable government policies toward bio-plastics.
- On the flip side, the high cost of PLA is expected to hinder the development of the market studied.
- The growing production of genetically modified corn and the increasing usage of bio-PLA in 3D printing are likely to act as opportunities in the future.
- Asia-Pacific dominated the market worldwide, with the most significant consumption from countries like China and Japan.

Polylactic Acid (PLA) Market Trends

The Packaging Segment is Expected to Dominate the Market

- The packaging industry is one of the largest consumers of bio-PLA. Packaging accounted for a little over 68% of the bio-PLA

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market in 2021 in terms of revenue. Moreover, concerns about hygiene and food safety in the context of the pandemic have become a higher priority globally.

- As per the Indian Institute of Packaging, the packaging consumption in India has increased by 200% in the past decade, rising from 4.3 to 8.6 kg per person per year. Nonetheless, China dominates the sector and is the largest manufacturer and exporter of packaging materials and products globally.
- The demand is expected to increase for dietary supplements, such as vitamins, and essential supplies, such as allergy medication. Moreover, environmental and climate change concerns are driving countries worldwide to choose biodegradable packaging materials.
- Bio-PLA is primarily used in fruit and vegetable packaging in supermarkets and for bread bags and bakery boxes, bottles, envelopes, display carton windows, and shopping or carrier bags.
- The restaurant chains and food processing industries are increasingly adopting biodegradable materials for food packaging. People are also becoming more aware of how safe food is, since some plastics are known to cause cancer.
- The post-lockdown numbers indicate a systemic shift in consumer purchasing preferences from offline to online. Customers around the world are getting more and more used to shopping online, which is expected to increase demand in the PLA market over the next few years.

China is Expected to Dominate the Market in Asia-Pacific

- China is the largest economy in the Asia-Pacific region and has one of the largest manufacturing and production bases in the world.
- In the country, the packaging industry is witnessing tremendous growth due to the plastic ban and shift toward sustainable and biodegradable packaging. Thus, it is expected to drive the market during the period.
- Furthermore, the Chinese food processing industry is moving toward maturity and experiencing moderate growth. Processed and packaged frozen food products are increasingly popular, especially dairy, baby food, and confectionery products, which is a driver for the food processing industry.
- According to the National Bureau of Statistics of China, in 2021, the food industry in China generated a total profit of about 618 billion yuan (USD 88.5 billion). The food manufacturing industry contributed approximately 179.1 billion yuan (USD 26.6 billion) to the total profits.
- China is the largest textile-producing and exporting country in the world. The textile industry of China grew steadily in 2021, with collective profits of 267.7 billion yuan (USD 38.20 billion), a 25.4 percent increase year-on-year (YoY), according to the Ministry of Industry and Information Technology (MIIT).
- In 2021, the health expenditure was approximately CNY 7.2 trillion, accounting for 7.1% of the country's GDP. The medical and therapeutical market in China has witnessed strong growth due to a growing number of hospitals and the increasing demand for medical assistance. Thus, advancements in medical applications are expected to drive the market during the forecast period.
- Furthermore, according to ZVEI Dia Elektroindustrie, China's electronics industry will be worth approximately EUR 2,500 billion (USD 2635 billion) in 2021, accounting for more than 50% of global production, and is expected to grow at 14% and 8% Y-o-Y in 2022 and 2023, respectively.

So, the bio-polylactic acid market in Asia-Pacific is likely to be led by China over the next few years.

Polylactic Acid (PLA) Industry Overview

The bio-polylactic acid market is highly consolidated, and the four major players have a share of around 86% market in terms of production capacity. The major players of the market studied (not in any particular order) include NatureWorks LLC, Zhejiang

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Hisun Biomaterials Co. Ltd, Sulzer Ltd, Total Corbion PLA and Futerro, among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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