

# Global Fiber Grade Polylactic Acid (PLA) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fiber Grade Polylactic Acid (PLA) market size is expected to reach \$ 366 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Fiber Grade Polylactic Acid (PLA) refers to polylactic acid polymer sold as pellets or chips (and closely related fiber-ready compounds) formulated and controlled for melt spinning and nonwoven processes such as staple fiber, filament yarn, spunbond, and meltblown. It matters because it provides a commercially scalable route to bio-based and industrially compostable fibers, enabling brand owners and converters to reduce fossil carbon intensity and comply with tightening single-use and microplastic-related expectations in selected textile and nonwoven applications.

Upstream, the value chain is anchored by fermentative lactic acid, lactide purification, and polymerization know-how; stable quality requires tight control of residual monomer, moisture sensitivity, molecular-weight distribution, and thermal stability through processing. Downstream, the main users are fiber producers, nonwoven converters, hygiene and medical supply chains, and textile mills that purchase fiber-grade PLA either as spot buys for trial runs or as annual framework volumes once a grade is qualified. Procurement typically follows a qualification-driven model: customers lock a grade after pilot trials, then place rolling orders against quarterly or annual supply agreements, while hygiene and medical nonwovens often prefer tighter specification windows and documented consistency.

In the current market, global production is around 95,000 t, with an average selling price of about 2,650 USD per t EXW basis. The market remains more concentrated than commodity polyolefins because only a limited number of suppliers can consistently deliver fiber-grade stability, narrow quality variation, and global technical support; Top 5 suppliers control approximately 65 percent of global revenue CR5 on an estimated basis. Demand is most active in Asia Pacific (notably China and broader East/Southeast

Asia) where nonwovens and textile processing capacity is dense, followed by North America and Europe where brand-driven sustainability programs and specialty nonwovens are important. The typical gross margin level for qualified fiber-grade PLA resin is estimated at 22 percent, supported by barriers such as lactide purification complexity, polymerization process control, qualification cycles with fiber and nonwoven lines, and the need for consistent rheology under high-throughput spinning. Key bottlenecks include feedstock-price volatility (sugars and starch-linked inputs), plant utilization constraints during rapid demand swings, and performance trade-offs versus incumbent PP/PET in heat resistance, hydrolysis tolerance, and dyeing/finishing windows.

From 2026 to 2032, growth is expected to be driven by three reinforcing forces: regulation and brand commitments that prioritize compostable or bio-based solutions in selected nonwovens, technology iteration that improves heat resistance and hydrolysis stability for tougher fiber process windows, and continued cost-down via larger-scale plants and better catalyst and purification efficiency. At the same time, carbon accounting and traceability requirements are likely to tighten, increasing the value of audited bio-based content and robust certification packages for hygiene and medical markets. Competitive dynamics will increasingly reflect application-specific grade development: spunbond and meltblown lines reward stable MFR and low gels, while textile staple and filament demand higher tenacity consistency and better thermal-aging stability. The main risk to adoption is not only resin price but also conversion economics: converters must balance line speed, scrap rates, and downstream finishing constraints against sustainability premiums. Over the forecast window, the most defensible positions are expected to be held by suppliers that combine upstream integration (lactic acid to lactide to PLA), multi-region supply resilience, and application engineering that helps customers sustain throughput and quality without sacrificing compostability or compliance.

This report studies the global Fiber Grade Poly(lactic acid) (PLA) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fiber Grade Poly(lactic acid) (PLA) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fiber Grade Poly(lactic acid) (PLA) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Fiber Grade Poly(lactic acid) (PLA) total production and demand, 2021-2032, (K MT)

Global Fiber Grade Poly(lactic acid) (PLA) total production value, 2021-2032, (USD Million)

Global Fiber Grade Polylactic Acid (PLA) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Fiber Grade Polylactic Acid (PLA) consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Fiber Grade Polylactic Acid (PLA) domestic production, consumption, key domestic manufacturers and share

Global Fiber Grade Polylactic Acid (PLA) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Fiber Grade Polylactic Acid (PLA) production by Fiber Process, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Fiber Grade Polylactic Acid (PLA) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Fiber Grade Polylactic Acid (PLA) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NatureWorks LLC, TotalEnergies Corbion, Zhejiang Hisun Biomaterials Co., Ltd., Futerro, Mitsui Chemicals, Inc., Unitika Ltd., Jilin COFCO Biomaterial Co., Ltd., Anhui Fengyuan Biopolymer Co., Ltd., Henan Keyuan Bioengineering Co., Ltd., Shandong Shouguang Juneng Jinyumi Development Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fiber Grade Polylactic Acid (PLA) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Fiber Process, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fiber Grade Polylactic Acid (PLA) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fiber Grade Polylactic Acid (PLA) Market, Segmentation by Fiber Process:

Staple Fiber Spinning

Filament Yarn Spinning

Nonwoven

Global Fiber Grade Polylactic Acid (PLA) Market, Segmentation by Melt Rheology:

High Viscosity / Low MFR

Medium Viscosity / Medium MFR

Low Viscosity / High MFR

Global Fiber Grade Polylactic Acid (PLA) Market, Segmentation by Thermal-Hydrolysis Stability Package:

Standard Fiber Grade

Low-Residual Monomer Grade

Hydrolysis-Resistant Grade

Heat-Resistance Enhanced Grade

Low-Odor / Low-VOC Grade

Global Fiber Grade Polylactic Acid (PLA) Market, Segmentation by Application:

Tea Bag

Textile

Agriculture

Automobile

Hygiene

Other

**Companies Profiled:**

NatureWorks LLC

TotalEnergies Corbion

Zhejiang Hisun Biomaterials Co., Ltd.

Futero

Mitsui Chemicals, Inc.

Unitika Ltd.

Jilin COFCO Biomaterial Co., Ltd.

Anhui Fengyuan Biopolymer Co., Ltd.

Henan Keyuan Bioengineering Co., Ltd.

Shandong Shouguang Juneng Jinyumi Development Co., Ltd.

Yangzhou Huitong Biomaterials Co., Ltd.

Shenzhen Esun Industrial Co., Ltd.

Synbra Technology B.V.

Sukano AG

Techmer PM, LLC

**Key Questions Answered:**

1. How big is the global Fiber Grade Polylactic Acid (PLA) market?
2. What is the demand of the global Fiber Grade Polylactic Acid (PLA) market?
3. What is the year over year growth of the global Fiber Grade Polylactic Acid (PLA) market?
4. What is the production and production value of the global Fiber Grade Polylactic Acid (PLA) market?
5. Who are the key producers in the global Fiber Grade Polylactic Acid (PLA) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Fiber Grade Polylactic Acid (PLA) Introduction
- 1.2 World Fiber Grade Polylactic Acid (PLA) Supply & Forecast
  - 1.2.1 World Fiber Grade Polylactic Acid (PLA) Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Fiber Grade Polylactic Acid (PLA) Production (2021-2032)
  - 1.2.3 World Fiber Grade Polylactic Acid (PLA) Pricing Trends (2021-2032)
- 1.3 World Fiber Grade Polylactic Acid (PLA) Production by Region (Based on Production Site)
  - 1.3.1 World Fiber Grade Polylactic Acid (PLA) Production Value by Region (2021-2032)
  - 1.3.2 World Fiber Grade Polylactic Acid (PLA) Production by Region (2021-2032)
  - 1.3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Region (2021-2032)
  - 1.3.4 North America Fiber Grade Polylactic Acid (PLA) Production (2021-2032)
  - 1.3.5 Europe Fiber Grade Polylactic Acid (PLA) Production (2021-2032)
  - 1.3.6 China Fiber Grade Polylactic Acid (PLA) Production (2021-2032)
  - 1.3.7 Japan Fiber Grade Polylactic Acid (PLA) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Fiber Grade Polylactic Acid (PLA) Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Fiber Grade Polylactic Acid (PLA) Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Fiber Grade Polylactic Acid (PLA) Demand (2021-2032)
- 2.2 World Fiber Grade Polylactic Acid (PLA) Consumption by Region
  - 2.2.1 World Fiber Grade Polylactic Acid (PLA) Consumption by Region (2021-2026)
  - 2.2.2 World Fiber Grade Polylactic Acid (PLA) Consumption Forecast by Region (2027-2032)
- 2.3 United States Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.4 China Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.5 Europe Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.6 Japan Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.7 South Korea Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.8 ASEAN Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)
- 2.9 India Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Fiber Grade Polylactic Acid (PLA) Production Value by Manufacturer (2021-2026)

3.2 World Fiber Grade Polylactic Acid (PLA) Production by Manufacturer (2021-2026)

3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Manufacturer (2021-2026)

3.4 Fiber Grade Polylactic Acid (PLA) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Fiber Grade Polylactic Acid (PLA) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Fiber Grade Polylactic Acid (PLA) in 2025

3.5.3 Global Concentration Ratios (CR8) for Fiber Grade Polylactic Acid (PLA) in 2025

3.6 Fiber Grade Polylactic Acid (PLA) Market: Overall Company Footprint Analysis

3.6.1 Fiber Grade Polylactic Acid (PLA) Market: Region Footprint

3.6.2 Fiber Grade Polylactic Acid (PLA) Market: Company Product Type Footprint

3.6.3 Fiber Grade Polylactic Acid (PLA) Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Value Comparison

4.1.1 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Comparison

4.2.1 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Fiber Grade Polylactic Acid (PLA) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Fiber Grade Polylactic Acid (PLA) Consumption Comparison

4.3.1 United States VS China: Fiber Grade Polylactic Acid (PLA) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Fiber Grade Polylactic Acid (PLA) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Fiber Grade Polylactic Acid (PLA) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production (2021-2026)

4.5 China Based Fiber Grade Polylactic Acid (PLA) Manufacturers and Market Share

4.5.1 China Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value (2021-2026)

4.5.3 China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production (2021-2026)

4.6 Rest of World Based Fiber Grade Polylactic Acid (PLA) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production (2021-2026)

## **5 MARKET ANALYSIS BY FIBER PROCESS**

5.1 World Fiber Grade Polylactic Acid (PLA) Market Size Overview by Fiber Process: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Fiber Process

5.2.1 Staple Fiber Spinning

5.2.2 Filament Yarn Spinning

5.2.3 Nonwoven

5.3 Market Segment by Fiber Process

5.3.1 World Fiber Grade Polylactic Acid (PLA) Production by Fiber Process (2021-2032)

5.3.2 World Fiber Grade Polylactic Acid (PLA) Production Value by Fiber Process (2021-2032)

5.3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Fiber Process (2021-2032)

## **6 MARKET ANALYSIS BY MELT RHEOLOGY**

6.1 World Fiber Grade Polylactic Acid (PLA) Market Size Overview by Melt Rheology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Melt Rheology

6.2.1 High Viscosity / Low MFR

6.2.2 Medium Viscosity / Medium MFR

6.2.3 Low Viscosity / High MFR

6.3 Market Segment by Melt Rheology

6.3.1 World Fiber Grade Polylactic Acid (PLA) Production by Melt Rheology (2021-2032)

6.3.2 World Fiber Grade Polylactic Acid (PLA) Production Value by Melt Rheology (2021-2032)

6.3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Melt Rheology (2021-2032)

## **7 MARKET ANALYSIS BY THERMAL-HYDROLYSIS STABILITY PACKAGE**

7.1 World Fiber Grade Polylactic Acid (PLA) Market Size Overview by Thermal-Hydrolysis Stability Package: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Thermal-Hydrolysis Stability Package

7.2.1 Standard Fiber Grade

7.2.2 Low-Residual Monomer Grade

7.2.3 Hydrolysis-Resistant Grade

7.2.4 Heat-Resistance Enhanced Grade

7.2.5 Low-Odor / Low-VOC Grade

7.3 Market Segment by Thermal-Hydrolysis Stability Package

7.3.1 World Fiber Grade Polylactic Acid (PLA) Production by Thermal-Hydrolysis Stability Package (2021-2032)

7.3.2 World Fiber Grade Polylactic Acid (PLA) Production Value by Thermal-Hydrolysis Stability Package (2021-2032)

7.3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Thermal-Hydrolysis Stability Package (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Fiber Grade Polylactic Acid (PLA) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Tea Bag

8.2.2 Textile

8.2.3 Agriculture

8.2.4 Automobile

8.2.5 Hygiene

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Fiber Grade Polylactic Acid (PLA) Production by Application (2021-2032)

8.3.2 World Fiber Grade Polylactic Acid (PLA) Production Value by Application (2021-2032)

8.3.3 World Fiber Grade Polylactic Acid (PLA) Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

9.1 NatureWorks LLC

9.1.1 NatureWorks LLC Details

9.1.2 NatureWorks LLC Major Business

9.1.3 NatureWorks LLC Fiber Grade Polylactic Acid (PLA) Product and Services

9.1.4 NatureWorks LLC Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 NatureWorks LLC Recent Developments/Updates

9.1.6 NatureWorks LLC Competitive Strengths & Weaknesses

9.2 TotalEnergies Corbion

9.2.1 TotalEnergies Corbion Details

9.2.2 TotalEnergies Corbion Major Business

9.2.3 TotalEnergies Corbion Fiber Grade Polylactic Acid (PLA) Product and Services

9.2.4 TotalEnergies Corbion Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 TotalEnergies Corbion Recent Developments/Updates

9.2.6 TotalEnergies Corbion Competitive Strengths & Weaknesses

9.3 Zhejiang Hisun Biomaterials Co., Ltd.

9.3.1 Zhejiang Hisun Biomaterials Co., Ltd. Details

9.3.2 Zhejiang Hisun Biomaterials Co., Ltd. Major Business

9.3.3 Zhejiang Hisun Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.3.4 Zhejiang Hisun Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Hisun Biomaterials Co., Ltd. Recent Developments/Updates

9.3.6 Zhejiang Hisun Biomaterials Co., Ltd. Competitive Strengths & Weaknesses

9.4 Futerro

9.4.1 Futerro Details

9.4.2 Futerro Major Business

9.4.3 Futerro Fiber Grade Polylactic Acid (PLA) Product and Services

9.4.4 Futerro Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Futerro Recent Developments/Updates

9.4.6 Futerro Competitive Strengths & Weaknesses

9.5 Mitsui Chemicals, Inc.

9.5.1 Mitsui Chemicals, Inc. Details

9.5.2 Mitsui Chemicals, Inc. Major Business

9.5.3 Mitsui Chemicals, Inc. Fiber Grade Polylactic Acid (PLA) Product and Services

9.5.4 Mitsui Chemicals, Inc. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Mitsui Chemicals, Inc. Recent Developments/Updates

9.5.6 Mitsui Chemicals, Inc. Competitive Strengths & Weaknesses

9.6 Unitika Ltd.

9.6.1 Unitika Ltd. Details

9.6.2 Unitika Ltd. Major Business

9.6.3 Unitika Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.6.4 Unitika Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Unitika Ltd. Recent Developments/Updates

9.6.6 Unitika Ltd. Competitive Strengths & Weaknesses

9.7 Jilin COFCO Biomaterial Co., Ltd.

9.7.1 Jilin COFCO Biomaterial Co., Ltd. Details

9.7.2 Jilin COFCO Biomaterial Co., Ltd. Major Business

9.7.3 Jilin COFCO Biomaterial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.7.4 Jilin COFCO Biomaterial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Jilin COFCO Biomaterial Co., Ltd. Recent Developments/Updates

9.7.6 Jilin COFCO Biomaterial Co., Ltd. Competitive Strengths & Weaknesses

## 9.8 Anhui Fengyuan Biopolymer Co., Ltd.

9.8.1 Anhui Fengyuan Biopolymer Co., Ltd. Details

9.8.2 Anhui Fengyuan Biopolymer Co., Ltd. Major Business

9.8.3 Anhui Fengyuan Biopolymer Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.8.4 Anhui Fengyuan Biopolymer Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Anhui Fengyuan Biopolymer Co., Ltd. Recent Developments/Updates

9.8.6 Anhui Fengyuan Biopolymer Co., Ltd. Competitive Strengths & Weaknesses

## 9.9 Henan Keyuan Bioengineering Co., Ltd.

9.9.1 Henan Keyuan Bioengineering Co., Ltd. Details

9.9.2 Henan Keyuan Bioengineering Co., Ltd. Major Business

9.9.3 Henan Keyuan Bioengineering Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.9.4 Henan Keyuan Bioengineering Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Henan Keyuan Bioengineering Co., Ltd. Recent Developments/Updates

9.9.6 Henan Keyuan Bioengineering Co., Ltd. Competitive Strengths & Weaknesses

## 9.10 Shandong Shouguang Juneng Jinyumi Development Co., Ltd.

9.10.1 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Details

9.10.2 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Major Business

9.10.3 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.10.4 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Recent Developments/Updates

9.10.6 Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Competitive Strengths & Weaknesses

## 9.11 Yangzhou Huitong Biomaterials Co., Ltd.

9.11.1 Yangzhou Huitong Biomaterials Co., Ltd. Details

9.11.2 Yangzhou Huitong Biomaterials Co., Ltd. Major Business

9.11.3 Yangzhou Huitong Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.11.4 Yangzhou Huitong Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Yangzhou Huitong Biomaterials Co., Ltd. Recent Developments/Updates

9.11.6 Yangzhou Huitong Biomaterials Co., Ltd. Competitive Strengths & Weaknesses

## 9.12 Shenzhen Esun Industrial Co., Ltd.

9.12.1 Shenzhen Esun Industrial Co., Ltd. Details

9.12.2 Shenzhen Esun Industrial Co., Ltd. Major Business

9.12.3 Shenzhen Esun Industrial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

9.12.4 Shenzhen Esun Industrial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Shenzhen Esun Industrial Co., Ltd. Recent Developments/Updates

9.12.6 Shenzhen Esun Industrial Co., Ltd. Competitive Strengths & Weaknesses

## 9.13 Synbra Technology B.V.

9.13.1 Synbra Technology B.V. Details

9.13.2 Synbra Technology B.V. Major Business

9.13.3 Synbra Technology B.V. Fiber Grade Polylactic Acid (PLA) Product and Services

9.13.4 Synbra Technology B.V. Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Synbra Technology B.V. Recent Developments/Updates

9.13.6 Synbra Technology B.V. Competitive Strengths & Weaknesses

## 9.14 Sukano AG

9.14.1 Sukano AG Details

9.14.2 Sukano AG Major Business

9.14.3 Sukano AG Fiber Grade Polylactic Acid (PLA) Product and Services

9.14.4 Sukano AG Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Sukano AG Recent Developments/Updates

9.14.6 Sukano AG Competitive Strengths & Weaknesses

## 9.15 Techmer PM, LLC

9.15.1 Techmer PM, LLC Details

9.15.2 Techmer PM, LLC Major Business

9.15.3 Techmer PM, LLC Fiber Grade Polylactic Acid (PLA) Product and Services

9.15.4 Techmer PM, LLC Fiber Grade Polylactic Acid (PLA) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Techmer PM, LLC Recent Developments/Updates

9.15.6 Techmer PM, LLC Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

10.1 Fiber Grade Polylactic Acid (PLA) Industry Chain

10.2 Fiber Grade Polylactic Acid (PLA) Upstream Analysis

- 10.2.1 Fiber Grade Polylactic Acid (PLA) Core Raw Materials
- 10.2.2 Main Manufacturers of Fiber Grade Polylactic Acid (PLA) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Fiber Grade Polylactic Acid (PLA) Production Mode
- 10.6 Fiber Grade Polylactic Acid (PLA) Procurement Model
- 10.7 Fiber Grade Polylactic Acid (PLA) Industry Sales Model and Sales Channels
  - 10.7.1 Fiber Grade Polylactic Acid (PLA) Sales Model
  - 10.7.2 Fiber Grade Polylactic Acid (PLA) Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Fiber Grade Polylactic Acid (PLA) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Fiber Grade Polylactic Acid (PLA) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Fiber Grade Polylactic Acid (PLA) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Region (2021-2026)

Table 5. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Region (2027-2032)

Table 6. World Fiber Grade Polylactic Acid (PLA) Production by Region (2021-2026) & (K MT)

Table 7. World Fiber Grade Polylactic Acid (PLA) Production by Region (2027-2032) & (K MT)

Table 8. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Region (2021-2026)

Table 9. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Region (2027-2032)

Table 10. World Fiber Grade Polylactic Acid (PLA) Average Price by Region (2021-2026) & (USD/MT)

Table 11. World Fiber Grade Polylactic Acid (PLA) Average Price by Region (2027-2032) & (USD/MT)

Table 12. Fiber Grade Polylactic Acid (PLA) Major Market Trends

Table 13. World Fiber Grade Polylactic Acid (PLA) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K MT)

Table 14. World Fiber Grade Polylactic Acid (PLA) Consumption by Region (2021-2026) & (K MT)

Table 15. World Fiber Grade Polylactic Acid (PLA) Consumption Forecast by Region (2027-2032) & (K MT)

Table 16. World Fiber Grade Polylactic Acid (PLA) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Fiber Grade Polylactic Acid (PLA) Producers in 2025

Table 18. World Fiber Grade Polylactic Acid (PLA) Production by Manufacturer (2021-2026) & (K MT)

Table 19. Production Market Share of Key Fiber Grade Polylactic Acid (PLA) Producers in 2025

Table 20. World Fiber Grade Polylactic Acid (PLA) Average Price by Manufacturer (2021-2026) & (USD/MT)

Table 21. Global Fiber Grade Polylactic Acid (PLA) Company Evaluation Quadrant

Table 22. World Fiber Grade Polylactic Acid (PLA) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Fiber Grade Polylactic Acid (PLA) Production Site of Key Manufacturer

Table 24. Fiber Grade Polylactic Acid (PLA) Market: Company Product Type Footprint

Table 25. Fiber Grade Polylactic Acid (PLA) Market: Company Product Application Footprint

Table 26. Fiber Grade Polylactic Acid (PLA) Competitive Factors

Table 27. Fiber Grade Polylactic Acid (PLA) New Entrant and Capacity Expansion Plans

Table 28. Fiber Grade Polylactic Acid (PLA) Mergers & Acquisitions Activity

Table 29. United States VS China Fiber Grade Polylactic Acid (PLA) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Fiber Grade Polylactic Acid (PLA) Production Comparison, (2021 & 2025 & 2032) & (K MT)

Table 31. United States VS China Fiber Grade Polylactic Acid (PLA) Consumption Comparison, (2021 & 2025 & 2032) & (K MT)

Table 32. United States Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production (2021-2026) & (K MT)

Table 36. United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share (2021-2026)

Table 37. China Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production, (2021-2026) & (K MT)

Table 41. China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share (2021-2026)

Table 42. Rest of World Based Fiber Grade Polylactic Acid (PLA) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production, (2021-2026) & (K MT)

Table 46. Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share (2021-2026)

Table 47. World Fiber Grade Polylactic Acid (PLA) Production Value by Fiber Process, (USD Million), 2021 & 2025 & 2032

Table 48. World Fiber Grade Polylactic Acid (PLA) Production by Fiber Process (2021-2026) & (K MT)

Table 49. World Fiber Grade Polylactic Acid (PLA) Production by Fiber Process (2027-2032) & (K MT)

Table 50. World Fiber Grade Polylactic Acid (PLA) Production Value by Fiber Process (2021-2026) & (USD Million)

Table 51. World Fiber Grade Polylactic Acid (PLA) Production Value by Fiber Process (2027-2032) & (USD Million)

Table 52. World Fiber Grade Polylactic Acid (PLA) Average Price by Fiber Process (2021-2026) & (USD/MT)

Table 53. World Fiber Grade Polylactic Acid (PLA) Average Price by Fiber Process (2027-2032) & (USD/MT)

Table 54. World Fiber Grade Polylactic Acid (PLA) Production Value by Melt Rheology, (USD Million), 2021 & 2025 & 2032

Table 55. World Fiber Grade Polylactic Acid (PLA) Production by Melt Rheology (2021-2026) & (K MT)

Table 56. World Fiber Grade Polylactic Acid (PLA) Production by Melt Rheology (2027-2032) & (K MT)

Table 57. World Fiber Grade Polylactic Acid (PLA) Production Value by Melt Rheology (2021-2026) & (USD Million)

Table 58. World Fiber Grade Polylactic Acid (PLA) Production Value by Melt Rheology (2027-2032) & (USD Million)

Table 59. World Fiber Grade Polylactic Acid (PLA) Average Price by Melt Rheology (2021-2026) & (USD/MT)

Table 60. World Fiber Grade Polylactic Acid (PLA) Average Price by Melt Rheology

(2027-2032) & (USD/MT)

Table 61. World Fiber Grade Polylactic Acid (PLA) Production Value by Thermal-Hydrolysis Stability Package, (USD Million), 2021 & 2025 & 2032

Table 62. World Fiber Grade Polylactic Acid (PLA) Production by Thermal-Hydrolysis Stability Package (2021-2026) & (K MT)

Table 63. World Fiber Grade Polylactic Acid (PLA) Production by Thermal-Hydrolysis Stability Package (2027-2032) & (K MT)

Table 64. World Fiber Grade Polylactic Acid (PLA) Production Value by Thermal-Hydrolysis Stability Package (2021-2026) & (USD Million)

Table 65. World Fiber Grade Polylactic Acid (PLA) Production Value by Thermal-Hydrolysis Stability Package (2027-2032) & (USD Million)

Table 66. World Fiber Grade Polylactic Acid (PLA) Average Price by Thermal-Hydrolysis Stability Package (2021-2026) & (USD/MT)

Table 67. World Fiber Grade Polylactic Acid (PLA) Average Price by Thermal-Hydrolysis Stability Package (2027-2032) & (USD/MT)

Table 68. World Fiber Grade Polylactic Acid (PLA) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Fiber Grade Polylactic Acid (PLA) Production by Application (2021-2026) & (K MT)

Table 70. World Fiber Grade Polylactic Acid (PLA) Production by Application (2027-2032) & (K MT)

Table 71. World Fiber Grade Polylactic Acid (PLA) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Fiber Grade Polylactic Acid (PLA) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Fiber Grade Polylactic Acid (PLA) Average Price by Application (2021-2026) & (USD/MT)

Table 74. World Fiber Grade Polylactic Acid (PLA) Average Price by Application (2027-2032) & (USD/MT)

Table 75. NatureWorks LLC Basic Information, Manufacturing Base and Competitors

Table 76. NatureWorks LLC Major Business

Table 77. NatureWorks LLC Fiber Grade Polylactic Acid (PLA) Product and Services

Table 78. NatureWorks LLC Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. NatureWorks LLC Recent Developments/Updates

Table 80. NatureWorks LLC Competitive Strengths & Weaknesses

Table 81. TotalEnergies Corbion Basic Information, Manufacturing Base and Competitors

Table 82. TotalEnergies Corbion Major Business

Table 83. TotalEnergies Corbion Fiber Grade Polylactic Acid (PLA) Product and Services

Table 84. TotalEnergies Corbion Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TotalEnergies Corbion Recent Developments/Updates

Table 86. TotalEnergies Corbion Competitive Strengths & Weaknesses

Table 87. Zhejiang Hisun Biomaterials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Zhejiang Hisun Biomaterials Co., Ltd. Major Business

Table 89. Zhejiang Hisun Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 90. Zhejiang Hisun Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhejiang Hisun Biomaterials Co., Ltd. Recent Developments/Updates

Table 92. Zhejiang Hisun Biomaterials Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Futerro Basic Information, Manufacturing Base and Competitors

Table 94. Futerro Major Business

Table 95. Futerro Fiber Grade Polylactic Acid (PLA) Product and Services

Table 96. Futerro Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Futerro Recent Developments/Updates

Table 98. Futerro Competitive Strengths & Weaknesses

Table 99. Mitsui Chemicals, Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Mitsui Chemicals, Inc. Major Business

Table 101. Mitsui Chemicals, Inc. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 102. Mitsui Chemicals, Inc. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Mitsui Chemicals, Inc. Recent Developments/Updates

Table 104. Mitsui Chemicals, Inc. Competitive Strengths & Weaknesses

Table 105. Unitika Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. Unitika Ltd. Major Business

Table 107. Unitika Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 108. Unitika Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Unitika Ltd. Recent Developments/Updates

Table 110. Unitika Ltd. Competitive Strengths & Weaknesses

Table 111. Jilin COFCO Biomaterial Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Jilin COFCO Biomaterial Co., Ltd. Major Business

Table 113. Jilin COFCO Biomaterial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 114. Jilin COFCO Biomaterial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Jilin COFCO Biomaterial Co., Ltd. Recent Developments/Updates

Table 116. Jilin COFCO Biomaterial Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Anhui Fengyuan Biopolymer Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Anhui Fengyuan Biopolymer Co., Ltd. Major Business

Table 119. Anhui Fengyuan Biopolymer Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 120. Anhui Fengyuan Biopolymer Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Anhui Fengyuan Biopolymer Co., Ltd. Recent Developments/Updates

Table 122. Anhui Fengyuan Biopolymer Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Henan Keyuan Bioengineering Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Henan Keyuan Bioengineering Co., Ltd. Major Business

Table 125. Henan Keyuan Bioengineering Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 126. Henan Keyuan Bioengineering Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Henan Keyuan Bioengineering Co., Ltd. Recent Developments/Updates

Table 128. Henan Keyuan Bioengineering Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Major

**Business**

Table 131. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 132. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Recent Developments/Updates

Table 134. Shandong Shouguang Juneng Jinyumi Development Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Yangzhou Huitong Biomaterials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Yangzhou Huitong Biomaterials Co., Ltd. Major Business

Table 137. Yangzhou Huitong Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 138. Yangzhou Huitong Biomaterials Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Yangzhou Huitong Biomaterials Co., Ltd. Recent Developments/Updates

Table 140. Yangzhou Huitong Biomaterials Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Shenzhen Esun Industrial Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Shenzhen Esun Industrial Co., Ltd. Major Business

Table 143. Shenzhen Esun Industrial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 144. Shenzhen Esun Industrial Co., Ltd. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shenzhen Esun Industrial Co., Ltd. Recent Developments/Updates

Table 146. Shenzhen Esun Industrial Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Synbra Technology B.V. Basic Information, Manufacturing Base and Competitors

Table 148. Synbra Technology B.V. Major Business

Table 149. Synbra Technology B.V. Fiber Grade Polylactic Acid (PLA) Product and Services

Table 150. Synbra Technology B.V. Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Synbra Technology B.V. Recent Developments/Updates

Table 152. Synbra Technology B.V. Competitive Strengths & Weaknesses

Table 153. Sukano AG Basic Information, Manufacturing Base and Competitors

Table 154. Sukano AG Major Business

Table 155. Sukano AG Fiber Grade Polylactic Acid (PLA) Product and Services

Table 156. Sukano AG Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Sukano AG Recent Developments/Updates

Table 158. Sukano AG Competitive Strengths & Weaknesses

Table 159. Techmer PM, LLC Basic Information, Manufacturing Base and Competitors

Table 160. Techmer PM, LLC Major Business

Table 161. Techmer PM, LLC Fiber Grade Polylactic Acid (PLA) Product and Services

Table 162. Techmer PM, LLC Fiber Grade Polylactic Acid (PLA) Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Techmer PM, LLC Recent Developments/Updates

Table 164. Techmer PM, LLC Competitive Strengths & Weaknesses

Table 165. Global Key Players of Fiber Grade Polylactic Acid (PLA) Upstream (Raw Materials)

Table 166. Global Fiber Grade Polylactic Acid (PLA) Typical Customers

Table 167. Fiber Grade Polylactic Acid (PLA) Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Fiber Grade Polylactic Acid (PLA) Picture

Figure 2. World Fiber Grade Polylactic Acid (PLA) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Fiber Grade Polylactic Acid (PLA) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Fiber Grade Polylactic Acid (PLA) Production (2021-2032) & (K MT)

Figure 5. World Fiber Grade Polylactic Acid (PLA) Average Price (2021-2032) & (USD/MT)

Figure 6. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Region (2021-2032)

Figure 7. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Region (2021-2032)

Figure 8. North America Fiber Grade Polylactic Acid (PLA) Production (2021-2032) & (K MT)

Figure 9. Europe Fiber Grade Polylactic Acid (PLA) Production (2021-2032) & (K MT)

Figure 10. China Fiber Grade Polylactic Acid (PLA) Production (2021-2032) & (K MT)

Figure 11. Japan Fiber Grade Polylactic Acid (PLA) Production (2021-2032) & (K MT)

Figure 12. Fiber Grade Polylactic Acid (PLA) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 15. World Fiber Grade Polylactic Acid (PLA) Consumption Market Share by Region (2021-2032)

Figure 16. United States Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 17. China Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 18. Europe Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 19. Japan Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 20. South Korea Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 21. ASEAN Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 22. India Fiber Grade Polylactic Acid (PLA) Consumption (2021-2032) & (K MT)

Figure 23. Producer Shipments of Fiber Grade Polylactic Acid (PLA) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

- Figure 24. Global Four-firm Concentration Ratios (CR4) for Fiber Grade Polylactic Acid (PLA) Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Fiber Grade Polylactic Acid (PLA) Markets in 2025
- Figure 26. United States VS China: Fiber Grade Polylactic Acid (PLA) Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Fiber Grade Polylactic Acid (PLA) Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Fiber Grade Polylactic Acid (PLA) Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share 2025
- Figure 30. China Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Fiber Grade Polylactic Acid (PLA) Production Market Share 2025
- Figure 32. World Fiber Grade Polylactic Acid (PLA) Production Value by Fiber Process, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Fiber Process in 2025
- Figure 34. Staple Fiber Spinning
- Figure 35. Filament Yarn Spinning
- Figure 36. Nonwoven
- Figure 37. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Fiber Process (2021-2032)
- Figure 38. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Fiber Process (2021-2032)
- Figure 39. World Fiber Grade Polylactic Acid (PLA) Average Price by Fiber Process (2021-2032) & (USD/MT)
- Figure 40. World Fiber Grade Polylactic Acid (PLA) Production Value by Melt Rheology, (USD Million), 2021 & 2025 & 2032
- Figure 41. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Melt Rheology in 2025
- Figure 42. High Viscosity / Low MFR
- Figure 43. Medium Viscosity / Medium MFR
- Figure 44. Low Viscosity / High MFR
- Figure 45. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Melt Rheology (2021-2032)
- Figure 46. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by

Melt Rheology (2021-2032)

Figure 47. World Fiber Grade Polylactic Acid (PLA) Average Price by Melt Rheology (2021-2032) & (USD/MT)

Figure 48. World Fiber Grade Polylactic Acid (PLA) Production Value by Thermal-Hydrolysis Stability Package, (USD Million), 2021 & 2025 & 2032

Figure 49. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Thermal-Hydrolysis Stability Package in 2025

Figure 50. Standard Fiber Grade

Figure 51. Low-Residual Monomer Grade

Figure 52. Hydrolysis-Resistant Grade

Figure 53. Heat-Resistance Enhanced Grade

Figure 54. Low-Odor / Low-VOC Grade

Figure 55. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Thermal-Hydrolysis Stability Package (2021-2032)

Figure 56. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Thermal-Hydrolysis Stability Package (2021-2032)

Figure 57. World Fiber Grade Polylactic Acid (PLA) Average Price by Thermal-Hydrolysis Stability Package (2021-2032) & (USD/MT)

Figure 58. World Fiber Grade Polylactic Acid (PLA) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Application in 2025

Figure 60. Tea Bag

Figure 61. Textile

Figure 62. Agriculture

Figure 63. Automobile

Figure 64. Hygiene

Figure 65. Other

Figure 66. World Fiber Grade Polylactic Acid (PLA) Production Market Share by Application (2021-2032)

Figure 67. World Fiber Grade Polylactic Acid (PLA) Production Value Market Share by Application (2021-2032)

Figure 68. World Fiber Grade Polylactic Acid (PLA) Average Price by Application (2021-2032) & (USD/MT)

Figure 69. Fiber Grade Polylactic Acid (PLA) Industry Chain

Figure 70. Fiber Grade Polylactic Acid (PLA) Procurement Model

Figure 71. Fiber Grade Polylactic Acid (PLA) Sales Model

Figure 72. Fiber Grade Polylactic Acid (PLA) Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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