

Lignin-based Resins Market Size, Share & Trends Analysis Report By Raw Material (Kraft Lignin, Lignosulfonates, Organosolv Lignin), By Product Type (Phenolic Resins, Epoxy Resins, Polyurethane Resins), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Lignin-based Resins Market Growth & Trends

The global lignin-based resins market size is anticipated to reach USD 693.22 million by 2030, registering a CAGR of 5.28% from 2025 to 2030, according to a new report by Grand View Research, Inc. The lignin-based resins industry is an emerging segment within the global sustainable materials landscape, gaining traction for its role in reducing dependence on fossil-derived chemicals.

Derived from lignin—a natural polymer abundantly available as a by-product of the pulp and paper industry—these resins offer a renewable alternative to conventional phenolic, epoxy, and polyurethane systems. Their utility spans a broad range of applications, from wood adhesives and insulation foams to composites and coatings. With increasing pressure to decarbonize industrial processes, lignin-based resins are being adopted across construction, automotive, and consumer goods sectors, seeking greener, low-toxicity solutions without compromising performance.

A major driver behind the growth of the market is the global shift toward bio-based and circular economy models. Lignin resins provide advantages such as reduced

formaldehyde content, lower greenhouse gas emissions, and compatibility with a wide range of substrates, making them suitable for both structural and non-structural applications. As regulations tighten around hazardous chemicals and sustainability criteria grow more stringent, industries are turning to lignin-based alternatives to comply with evolving standards.

Advancements in lignin extraction and functionalization technologies are enhancing the mechanical and thermal properties of these resins, unlocking their potential in high-value applications like automotive interiors, green packaging, and fiber-reinforced composites.

Furthermore, advancements in microbial conversion, gas fermentation, and biomass feedstock optimization have enabled scalable, commercially viable production routes. This combination of performance, policy alignment, and climate benefit makes Lignin-based Resins an increasingly strategic material for industries prioritizing long-term resilience and sustainable growth.

The market players are focusing on various strategic initiatives such as mergers, acquisitions, and collaborations. For instance, in March 2025, The LEGACY project, supported by a USD 6.5 million grant, developed sustainable and safe coatings using lignin, a natural material from wood. The project aimed to replace fossil-based chemicals in coatings with renewable alternatives, helping industries reduce their environmental impact.

Lignin-based Resins Market Report Highlights

Based on raw material, lignosulfonates held the largest share, accumulating a USD 393.46 million market size in 2024.

Based on product, phenolic resins accounted for the largest share of 57.58% in 2024.

Based on application, adhesives & binders accounted for the largest share of 47.35% in 2024.

Asia Pacific dominated the market. Countries like China and India are investing in lignin-based adhesives, concrete additives, and specialized chemicals, supported by government initiatives promoting sustainable development.

Companies Mentioned

Borregaard
Stora Enso
UPM Biochemicals
MetGen
Ingevity
Lignolix
West Fraser

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Types & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Insights
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. LIGNIN-BASED RESINS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent Market Outlook
- 3.2. Penetration & Growth Prospect Mapping
- 3.3. Industry Value Chain Analysis
 - 3.3.1. Profit Margin Analysis of Key Value Chain Participants
 - 3.3.2. Raw Material Trends
 - 3.3.3. Raw Material Price Analysis
- 3.4. Technology Overview
 - 3.4.1. Commercial Production Technology
 - 3.4.2. Roadmap of Technology Advancement, 2018 to 2030
- 3.5. Sustainability Trends
 - 3.5.1. Recycling and Circular Economy
- 3.6. Average Price Trend Analysis, 2018 to 2030 (USD/kg)
 - 3.6.1. Key Factors Influencing Pricing
- 3.7. Supply Demand Gap Analysis

3.8. Regulatory Framework

- 3.8.1. Policies and Incentive Plans
- 3.8.2. Standards and Compliances
- 3.8.3. Regulatory Impact Analysis

3.9. Market Dynamics

- 3.9.1. Market Driver Analysis
- 3.9.2. Market Restraint Analysis
- 3.9.3. Industry Challenges

3.10. Porter's Five Forces Analysis

- 3.10.1. Supplier Power
- 3.10.2. Buyer Power
- 3.10.3. Substitution Threat
- 3.10.4. Threat from New Entrants
- 3.10.5. Competitive Rivalry

3.11. PESTEL Analysis

- 3.11.1. Political Landscape
- 3.11.2. Economic Landscape
- 3.11.3. Social Landscape
- 3.11.4. Technological Landscape
- 3.11.5. Environmental Landscape
- 3.11.6. Legal Landscape

CHAPTER 4. LIGNIN-BASED RESINS MARKET: RAW MATERIAL OUTLOOK ESTIMATES & FORECASTS

4.1. Lignin-based Resins Market: Raw Material Movement Analysis, 2024 & 2030

4.1.1. Kraft Lignin

- 4.1.1.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

4.1.2. Lignosulfonates

- 4.1.2.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

4.1.3. Organosolv Lignin

- 4.1.3.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

4.1.4. Other Materials

- 4.1.4.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 5. LIGNIN-BASED RESINS MARKET: PRODUCT TYPE OUTLOOK ESTIMATES & FORECASTS

5.1. Lignin-based Resins Market: Product Type Movement Analysis, 2024 & 2030

5.1.1. Phenolic Resins

5.1.1.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

5.1.2. Epoxy Resins

5.1.2.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

5.1.3. Polyurethane Resins

5.1.3.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

5.1.4. Other Product Types

5.1.4.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 6. LIGNIN-BASED RESINS MARKET: APPLICATION OUTLOOK ESTIMATES & FORECASTS

6.1. Lignin-based Resins Market: Application Movement Analysis, 2024 & 2030

6.1.1. Adhesives & Binders

6.1.1.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

6.1.2. Coatings

6.1.2.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

6.1.3. Composites

6.1.3.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

6.1.4. Other Applications

6.1.4.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 7. LIGNIN-BASED RESINS MARKET REGIONAL OUTLOOK ESTIMATES & FORECASTS

7.1. Regional Snapshot

7.2. Lignin-based Resins Market: Regional Movement Analysis, 2024 & 2030

7.3. North America

7.3.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.3.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)

7.3.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)

7.3.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)

7.3.5. U.S.

7.3.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.3.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)

7.3.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.3.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.3.6. Canada

7.3.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.3.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.3.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.3.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.3.7. Mexico

7.3.7.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.3.7.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.3.7.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.3.7.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.4. Europe

7.4.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.4.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.4.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.4.5. UK

7.4.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.4.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.4.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.4.6. Germany

7.4.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)

(Kilotons)

7.4.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)

(Kilotons)

7.4.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)

(Kilotons)

7.4.7. France

7.4.7.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.7.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)

(Kilotons)

7.4.7.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)

(Kilotons)

7.4.7.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)

(Kilotons)

7.4.8. Italy

7.4.8.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.8.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)

(Kilotons)

7.4.8.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)

(Kilotons)

7.4.8.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)

(Kilotons)

7.4.9. Spain

7.4.9.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.4.9.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)

(Kilotons)

7.4.9.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)

(Kilotons)

7.4.9.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)

(Kilotons)

7.5. Asia Pacific

7.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)

(Kilotons)

7.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)

(Kilotons)

7.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)

(Kilotons)

7.5.5. China

7.5.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.5.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.5.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.5.6. India

7.5.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.5.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.5.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.5.7. Japan

7.5.7.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.7.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.5.7.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.5.7.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.5.8. South Korea

7.5.8.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.8.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.5.8.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.5.8.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.5.9. Australia

7.5.9.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.5.9.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million)
(Kilotons)

7.5.9.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million)
(Kilotons)

7.5.9.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million)
(Kilotons)

7.6. Latin America

- 7.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)
- 7.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)
- 7.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)
- 7.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)
- 7.6.5. Brazil
 - 7.6.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)
- 7.6.6. Argentina
 - 7.6.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)
 - 7.6.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)
- 7.7. Middle East & Africa
 - 7.7.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.5. Saudi Arabia
 - 7.7.5.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.5.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.5.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)
 - 7.7.5.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)

7.7.6. South Africa

7.7.6.1. Market estimates and forecast, 2018 - 2030 (USD Million) (Kilotons)

7.7.6.2. Market estimates and forecast, by raw material, 2018 - 2030 (USD Million) (Kilotons)

7.7.6.3. Market estimates and forecast, by product type, 2018 - 2030 (USD Million) (Kilotons)

7.7.6.4. Market estimates and forecast, by application, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Recent Developments & Impact Analysis, By Key Market Participants

8.2. Vendor Landscape

8.2.1. Company categorization

8.2.2. List of Key Distributors and channel Partners

8.2.3. List of Potential Customers/End-users

8.3. Competitive Dynamics

8.3.1. Company Market Share Analysis & Market Positioning

8.3.2. Competitive Benchmarking

8.3.3. Strategy Mapping

8.3.4. Heat Map Analysis

8.4. Company Profiles/Listing

8.4.1. Participant's overview

8.4.2. Financial performance

8.4.3. Product benchmarking

8.4.3.1. Borregaard

8.4.3.2. Stora Enso

8.4.3.3. UPM Biochemicals

8.4.3.4. MetGen

8.4.3.5. Ingevity

8.4.3.6. Lignolix

8.4.3.7. West Fraser

List Of Tables

LIST OF TABLES

Table 1 List of Abbreviations

Table 2 Kraft Lignin market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 3 Lignosulfonates market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 4 Organosolv Lignin market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 5 Other Materials market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 6 Phenolic Resins market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 7 Epoxy Resins market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 8 Polyurethane Resins market estimates and forecasts, 2018 - 2030 (USD
Million) (Kilotons)

Table 9 Other Product Types market estimates and forecasts, 2018 - 2030 (USD
Million) (Kilotons)

Table 10 Adhesives & Binders market estimates and forecasts, 2018 - 2030 (USD
Million) (Kilotons)

Table 11 Coatings market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

Table 12 Composites market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 13 Other Applications market estimates and forecasts, 2018 - 2030 (USD Million)
(Kilotons)

Table 14 North America lignin-based resins market estimates and forecasts, by raw
material, 2018 - 2030 (USD Million) (Kilotons)

Table 15 North America lignin-based resins market estimates and forecasts, by product
type, 2018 - 2030 (USD Million) (Kilotons)

Table 16 North America lignin-based resins market estimates and forecasts, by
application, 2018 - 2030 (USD Million) (Kilotons)

Table 17 U.S lignin-based resins market estimates and forecasts, by raw material, 2018
- 2030 (USD Million) (Kilotons)

Table 18 U.S lignin-based resins market estimates and forecasts, by product type, 2018
- 2030 (USD Million) (Kilotons)

Table 19 U.S lignin-based resins market estimates and forecasts, by application, 2018 -

2030 (USD Million) (Kilotons)

Table 20 Canada lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 21 Canada lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 22 Canada lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 23 Mexico lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 24 Mexico lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 25 Mexico lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 26 Europe lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 27 Europe lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 28 Europe lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 29 Germany lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 30 Germany lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 31 Germany lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 32 UK lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 33 UK lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 34 UK lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 35 France lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 36 France lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 37 France lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 38 Italy lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 39 Italy lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 40 Italy lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 41 Spain lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 42 Spain lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 43 Spain lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 44 Asia Pacific lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 45 Asia Pacific lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 46 Asia Pacific lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 47 China lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 48 China lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 49 China lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 50 India lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 51 India lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 52 India lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 53 Japan lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 54 Japan lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 55 Japan lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 56 South Korea lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 57 South Korea lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 58 South Korea lignin-based resins market estimates and forecasts, by

application, 2018 - 2030 (USD Million) (Kilotons)

Table 59 Australia lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 60 Australia lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 61 Australia lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 62 Latin America lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 63 Latin America lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 64 Latin America lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 65 Brazil lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 66 Brazil lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 67 Brazil lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 68 Argentina lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 69 Argentina lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 70 Argentina lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 71 Middle East & Africa lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 72 Middle East & Africa lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 73 Middle East & Africa lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 74 Saudi Arabia lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 75 Saudi Arabia lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 76 Saudi Arabia lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 77 South Africa lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 78 South Africa lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 79 South Africa lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

Table 80 UAE lignin-based resins market estimates and forecasts, by raw material, 2018 - 2030 (USD Million) (Kilotons)

Table 81 UAE lignin-based resins market estimates and forecasts, by product type, 2018 - 2030 (USD Million) (Kilotons)

Table 82 UAE lignin-based resins market estimates and forecasts, by application, 2018 - 2030 (USD Million) (Kilotons)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market segmentation
- Fig. 2 Information procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Formulation and Validation
- Fig. 5 Market snapshot
- Fig. 6 Segmental outlook- Raw Material, Thickness, and Applications
- Fig. 7 Competitive outlook
- Fig. 8 Value chain analysis
- Fig. 9 Market dynamics
- Fig. 10 Porter's Analysis
- Fig. 11 PESTEL Analysis
- Fig. 12 Lignin-based Resins Market, by Raw Material: Key Takeaways
- Fig. 13 Lignin-based Resins Market, by Raw Material: Market share, 2024 & 2030
- Fig. 14 Lignin-based Resins Market, by Product Type: Key Takeaways
- Fig. 15 Lignin-based Resins Market, by Product Type: Market share, 2024 & 2030
- Fig. 16 Lignin-based Resins Market, by Application: Key Takeaways
- Fig. 17 Lignin-based Resins Market, by Application: Market share, 2024 & 2030
- Fig. 18 Lignin-based Resins Market, by Region: Key takeaways
- Fig. 19 Lignin-based Resins Market, by Region: Market share, 2024 & 2030

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