

Global Low-DK Benzoxazine Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-DK Benzoxazine Resin market size is expected to reach \$ 240 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Low-DK Benzoxazine Resin was approximately 6,340 tons, with the mainstream ex-factory average price at about USD 18/kg. The gross margin of major manufacturers in the industry was approximately 35%-50%.

Low-DK Benzoxazine Resin is a high-performance thermosetting resin developed for high-frequency and high-speed electronic material. It is mainly based on benzoxazine monomer, prepolymer, or modified resin, and is characterized by low dielectric constant, low dielectric loss, high heat resistance, low water absorption, and good dimensional stability after curing. Through molecular structure design, functionality control, and the introduction of low-polarity structures, the resin can maintain the high glass transition temperature, low curing shrinkage, and flame-retardant potential of benzoxazine material while becoming more suitable for high-frequency signal transmission and high-speed circuit application. Compared with conventional epoxy resin system, Low-DK Benzoxazine Resin offers advantages in low Df, low moisture absorption, thermal stability, and dimensional reliability. It is commonly used as a main resin, modified resin, or co-curing component in high-frequency and high-speed copper-clad laminate, prepreg, package substrate, and high-frequency composite material.

The upstream materials mainly include phenolic compound, bisphenol monomer, amine monomer, aldehyde raw material, DCPD structural monomer, low-polarity aromatic monomer, fluorine-containing or silicon-containing modified monomer, solvent, and catalyst. Among them, the phenol source, amine source, and substituent structure

determine the molecular backbone, functionality, curing activity, and dielectric performance of benzoxazine resin. The production process generally involves benzoxazine monomer synthesis, prepolymerization control, molecular weight adjustment, solvent treatment, and electronic-grade purification, with strict requirements for Dk, Df, softening point, viscosity, gel time, volatile content, ionic impurity, and batch-to-batch stability. Downstream customers mainly include copper-clad laminate manufacturer, prepreg manufacturer, package substrate material manufacturer, semiconductor packaging material manufacturer, and high-frequency composite material company. The product is usually used together with epoxy resin, BMI, PPO, cyanate ester resin, filler, and additive, ultimately serving application scenarios requiring low-loss transmission, such as server, communication base station, AI computing equipment, automotive electronics, radar, and high-frequency antenna.

This report studies the global Low-DK Benzoxazine Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-DK Benzoxazine Resin 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 Low-DK Benzoxazine Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-DK Benzoxazine Resin total production and demand, 2021-2032, (Tons)

Global Low-DK Benzoxazine Resin total production value, 2021-2032, (USD Million)

Global Low-DK Benzoxazine Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Low-DK Benzoxazine Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low-DK Benzoxazine Resin domestic production, consumption, key domestic manufacturers and share

Global Low-DK Benzoxazine Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Low-DK Benzoxazine Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Low-DK Benzoxazine Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Low-DK Benzoxazine Resin 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 Huntsman, Japan Material Technologies, Shikoku Chemicals, JFE Chemical, Tongyu Advanced Materials (Guangdong), Sichuan EM Technology, Jinan Shengquan Group, Chengdu Coryes Polymer Science & Technology, 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 Low-DK Benzoxazine Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Low-DK Benzoxazine Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-DK Benzoxazine Resin Market, Segmentation by Type:

Monofunctional Type

Difunctional Type

Multifunctional Type

Global Low-DK Benzoxazine Resin Market, Segmentation by Form:

Solvent Type

Granular Type

Prepolymer Type

Global Low-DK Benzoxazine Resin Market, Segmentation by Application:

High-Frequency And High-Speed Copper-Clad Laminate

Prepreg

Package Substrate

Semiconductor Packaging Material

High-Frequency Composite Material

Other

Companies Profiled:

Huntsman

Japan Material Technologies

Shikoku Chemicals

JFE Chemical

Tongyu Advanced Materials (Guangdong)

Sichuan EM Technology

Jinan Shengquan Group

Chengdu Coryes Polymer Science & Technology

Key Questions Answered:

1. How big is the global Low-DK Benzoxazine Resin market?
2. What is the demand of the global Low-DK Benzoxazine Resin market?
3. What is the year over year growth of the global Low-DK Benzoxazine Resin market?
4. What is the production and production value of the global Low-DK Benzoxazine Resin market?
5. Who are the key producers in the global Low-DK Benzoxazine Resin market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Low-DK Benzoxazine Resin Demand (2021-2032)
- 2.2 World Low-DK Benzoxazine Resin Consumption by Region
 - 2.2.1 World Low-DK Benzoxazine Resin Consumption by Region (2021-2026)
 - 2.2.2 World Low-DK Benzoxazine Resin Consumption Forecast by Region (2027-2032)
- 2.3 United States Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.4 China Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.5 Europe Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.6 Japan Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.7 South Korea Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.8 ASEAN Low-DK Benzoxazine Resin Consumption (2021-2032)
- 2.9 India Low-DK Benzoxazine Resin Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Low-DK Benzoxazine Resin Production Value by Manufacturer (2021-2026)
- 3.2 World Low-DK Benzoxazine Resin Production by Manufacturer (2021-2026)
- 3.3 World Low-DK Benzoxazine Resin Average Price by Manufacturer (2021-2026)
- 3.4 Low-DK Benzoxazine Resin Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Low-DK Benzoxazine Resin Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Low-DK Benzoxazine Resin in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Low-DK Benzoxazine Resin in 2025
- 3.6 Low-DK Benzoxazine Resin Market: Overall Company Footprint Analysis
 - 3.6.1 Low-DK Benzoxazine Resin Market: Region Footprint
 - 3.6.2 Low-DK Benzoxazine Resin Market: Company Product Type Footprint
 - 3.6.3 Low-DK Benzoxazine Resin 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: Low-DK Benzoxazine Resin Production Value Comparison
 - 4.1.1 United States VS China: Low-DK Benzoxazine Resin Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Low-DK Benzoxazine Resin Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Low-DK Benzoxazine Resin Production Comparison
 - 4.2.1 United States VS China: Low-DK Benzoxazine Resin Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Low-DK Benzoxazine Resin Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Low-DK Benzoxazine Resin Consumption Comparison
 - 4.3.1 United States VS China: Low-DK Benzoxazine Resin Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Low-DK Benzoxazine Resin Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Low-DK Benzoxazine Resin Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Low-DK Benzoxazine Resin Manufacturers, Headquarters

and Production Site (States, Country)

4.4.2 United States Based Manufacturers Low-DK Benzoxazine Resin Production Value (2021-2026)

4.4.3 United States Based Manufacturers Low-DK Benzoxazine Resin Production (2021-2026)

4.5 China Based Low-DK Benzoxazine Resin Manufacturers and Market Share

4.5.1 China Based Low-DK Benzoxazine Resin Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Low-DK Benzoxazine Resin Production Value (2021-2026)

4.5.3 China Based Manufacturers Low-DK Benzoxazine Resin Production (2021-2026)

4.6 Rest of World Based Low-DK Benzoxazine Resin Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Low-DK Benzoxazine Resin Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Low-DK Benzoxazine Resin Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Monofunctional Type

5.2.2 Difunctional Type

5.2.3 Multifunctional Type

5.3 Market Segment by Type

5.3.1 World Low-DK Benzoxazine Resin Production by Type (2021-2032)

5.3.2 World Low-DK Benzoxazine Resin Production Value by Type (2021-2032)

5.3.3 World Low-DK Benzoxazine Resin Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FORM

6.1 World Low-DK Benzoxazine Resin Market Size Overview by Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Form

6.2.1 Solvent Type

6.2.2 Granular Type

6.2.3 Prepolymer Type

6.3 Market Segment by Form

6.3.1 World Low-DK Benzoxazine Resin Production by Form (2021-2032)

6.3.2 World Low-DK Benzoxazine Resin Production Value by Form (2021-2032)

6.3.3 World Low-DK Benzoxazine Resin Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Low-DK Benzoxazine Resin Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 High-Frequency And High-Speed Copper-Clad Laminate

7.2.2 Prepreg

7.2.3 Package Substrate

7.2.4 Semiconductor Packaging Material

7.2.5 High-Frequency Composite Material

7.2.6 Other

7.3 Market Segment by Application

7.3.1 World Low-DK Benzoxazine Resin Production by Application (2021-2032)

7.3.2 World Low-DK Benzoxazine Resin Production Value by Application (2021-2032)

7.3.3 World Low-DK Benzoxazine Resin Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Huntsman

8.1.1 Huntsman Details

8.1.2 Huntsman Major Business

8.1.3 Huntsman Low-DK Benzoxazine Resin Product and Services

8.1.4 Huntsman Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Huntsman Recent Developments/Updates

8.1.6 Huntsman Competitive Strengths & Weaknesses

8.2 Japan Material Technologies

8.2.1 Japan Material Technologies Details

8.2.2 Japan Material Technologies Major Business

8.2.3 Japan Material Technologies Low-DK Benzoxazine Resin Product and Services

8.2.4 Japan Material Technologies Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.2.5 Japan Material Technologies Recent Developments/Updates
- 8.2.6 Japan Material Technologies Competitive Strengths & Weaknesses
- 8.3 Shikoku Chemicals
 - 8.3.1 Shikoku Chemicals Details
 - 8.3.2 Shikoku Chemicals Major Business
 - 8.3.3 Shikoku Chemicals Low-DK Benzoxazine Resin Product and Services
 - 8.3.4 Shikoku Chemicals Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Shikoku Chemicals Recent Developments/Updates
 - 8.3.6 Shikoku Chemicals Competitive Strengths & Weaknesses
- 8.4 JFE Chemical
 - 8.4.1 JFE Chemical Details
 - 8.4.2 JFE Chemical Major Business
 - 8.4.3 JFE Chemical Low-DK Benzoxazine Resin Product and Services
 - 8.4.4 JFE Chemical Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 JFE Chemical Recent Developments/Updates
 - 8.4.6 JFE Chemical Competitive Strengths & Weaknesses
- 8.5 Tongyu Advanced Materials (Guangdong)
 - 8.5.1 Tongyu Advanced Materials (Guangdong) Details
 - 8.5.2 Tongyu Advanced Materials (Guangdong) Major Business
 - 8.5.3 Tongyu Advanced Materials (Guangdong) Low-DK Benzoxazine Resin Product and Services
 - 8.5.4 Tongyu Advanced Materials (Guangdong) Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Tongyu Advanced Materials (Guangdong) Recent Developments/Updates
 - 8.5.6 Tongyu Advanced Materials (Guangdong) Competitive Strengths & Weaknesses
- 8.6 Sichuan EM Technology
 - 8.6.1 Sichuan EM Technology Details
 - 8.6.2 Sichuan EM Technology Major Business
 - 8.6.3 Sichuan EM Technology Low-DK Benzoxazine Resin Product and Services
 - 8.6.4 Sichuan EM Technology Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Sichuan EM Technology Recent Developments/Updates
 - 8.6.6 Sichuan EM Technology Competitive Strengths & Weaknesses
- 8.7 Jinan Shengquan Group
 - 8.7.1 Jinan Shengquan Group Details
 - 8.7.2 Jinan Shengquan Group Major Business
 - 8.7.3 Jinan Shengquan Group Low-DK Benzoxazine Resin Product and Services

8.7.4 Jinan Shengquan Group Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Jinan Shengquan Group Recent Developments/Updates

8.7.6 Jinan Shengquan Group Competitive Strengths & Weaknesses

8.8 Chengdu Coryes Polymer Science & Technology

8.8.1 Chengdu Coryes Polymer Science & Technology Details

8.8.2 Chengdu Coryes Polymer Science & Technology Major Business

8.8.3 Chengdu Coryes Polymer Science & Technology Low-DK Benzoxazine Resin Product and Services

8.8.4 Chengdu Coryes Polymer Science & Technology Low-DK Benzoxazine Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Chengdu Coryes Polymer Science & Technology Recent Developments/Updates

8.8.6 Chengdu Coryes Polymer Science & Technology Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Low-DK Benzoxazine Resin Industry Chain

9.2 Low-DK Benzoxazine Resin Upstream Analysis

9.2.1 Low-DK Benzoxazine Resin Core Raw Materials

9.2.2 Main Manufacturers of Low-DK Benzoxazine Resin Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Low-DK Benzoxazine Resin Production Mode

9.6 Low-DK Benzoxazine Resin Procurement Model

9.7 Low-DK Benzoxazine Resin Industry Sales Model and Sales Channels

9.7.1 Low-DK Benzoxazine Resin Sales Model

9.7.2 Low-DK Benzoxazine Resin Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Low-DK Benzoxazine Resin Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Low-DK Benzoxazine Resin Production Value by Region (2021-2026) & (USD Million)

Table 3. World Low-DK Benzoxazine Resin Production Value by Region (2027-2032) & (USD Million)

Table 4. World Low-DK Benzoxazine Resin Production Value Market Share by Region (2021-2026)

Table 5. World Low-DK Benzoxazine Resin Production Value Market Share by Region (2027-2032)

Table 6. World Low-DK Benzoxazine Resin Production by Region (2021-2026) & (Tons)

Table 7. World Low-DK Benzoxazine Resin Production by Region (2027-2032) & (Tons)

Table 8. World Low-DK Benzoxazine Resin Production Market Share by Region (2021-2026)

Table 9. World Low-DK Benzoxazine Resin Production Market Share by Region (2027-2032)

Table 10. World Low-DK Benzoxazine Resin Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Low-DK Benzoxazine Resin Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Low-DK Benzoxazine Resin Major Market Trends

Table 13. World Low-DK Benzoxazine Resin Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Low-DK Benzoxazine Resin Consumption by Region (2021-2026) & (Tons)

Table 15. World Low-DK Benzoxazine Resin Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Low-DK Benzoxazine Resin Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Low-DK Benzoxazine Resin Producers in 2025

Table 18. World Low-DK Benzoxazine Resin Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Low-DK Benzoxazine Resin Producers in 2025

Table 20. World Low-DK Benzoxazine Resin Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Low-DK Benzoxazine Resin Company Evaluation Quadrant

Table 22. World Low-DK Benzoxazine Resin Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Low-DK Benzoxazine Resin Production Site of Key Manufacturer

Table 24. Low-DK Benzoxazine Resin Market: Company Product Type Footprint

Table 25. Low-DK Benzoxazine Resin Market: Company Product Application Footprint

Table 26. Low-DK Benzoxazine Resin Competitive Factors

Table 27. Low-DK Benzoxazine Resin New Entrant and Capacity Expansion Plans

Table 28. Low-DK Benzoxazine Resin Mergers & Acquisitions Activity

Table 29. United States VS China Low-DK Benzoxazine Resin Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Low-DK Benzoxazine Resin Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Low-DK Benzoxazine Resin Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Low-DK Benzoxazine Resin Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Low-DK Benzoxazine Resin Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Low-DK Benzoxazine Resin Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Low-DK Benzoxazine Resin Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Low-DK Benzoxazine Resin Production Market Share (2021-2026)

Table 37. China Based Low-DK Benzoxazine Resin Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Low-DK Benzoxazine Resin Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Low-DK Benzoxazine Resin Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Low-DK Benzoxazine Resin Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Low-DK Benzoxazine Resin Production Market Share (2021-2026)

Table 42. Rest of World Based Low-DK Benzoxazine Resin Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production Market Share (2021-2026)

Table 47. World Low-DK Benzoxazine Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Low-DK Benzoxazine Resin Production by Type (2021-2026) & (Tons)

Table 49. World Low-DK Benzoxazine Resin Production by Type (2027-2032) & (Tons)

Table 50. World Low-DK Benzoxazine Resin Production Value by Type (2021-2026) & (USD Million)

Table 51. World Low-DK Benzoxazine Resin Production Value by Type (2027-2032) & (USD Million)

Table 52. World Low-DK Benzoxazine Resin Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Low-DK Benzoxazine Resin Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Low-DK Benzoxazine Resin Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Low-DK Benzoxazine Resin Production by Form (2021-2026) & (Tons)

Table 56. World Low-DK Benzoxazine Resin Production by Form (2027-2032) & (Tons)

Table 57. World Low-DK Benzoxazine Resin Production Value by Form (2021-2026) & (USD Million)

Table 58. World Low-DK Benzoxazine Resin Production Value by Form (2027-2032) & (USD Million)

Table 59. World Low-DK Benzoxazine Resin Average Price by Form (2021-2026) & (US\$/Ton)

Table 60. World Low-DK Benzoxazine Resin Average Price by Form (2027-2032) & (US\$/Ton)

Table 61. World Low-DK Benzoxazine Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Low-DK Benzoxazine Resin Production by Application (2021-2026) & (Tons)

Table 63. World Low-DK Benzoxazine Resin Production by Application (2027-2032) & (Tons)

Table 64. World Low-DK Benzoxazine Resin Production Value by Application (2021-2026) & (USD Million)

Table 65. World Low-DK Benzoxazine Resin Production Value by Application (2027-2032) & (USD Million)

Table 66. World Low-DK Benzoxazine Resin Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Low-DK Benzoxazine Resin Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Huntsman Basic Information, Manufacturing Base and Competitors

Table 69. Huntsman Major Business

Table 70. Huntsman Low-DK Benzoxazine Resin Product and Services

Table 71. Huntsman Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Huntsman Recent Developments/Updates

Table 73. Huntsman Competitive Strengths & Weaknesses

Table 74. Japan Material Technologies Basic Information, Manufacturing Base and Competitors

Table 75. Japan Material Technologies Major Business

Table 76. Japan Material Technologies Low-DK Benzoxazine Resin Product and Services

Table 77. Japan Material Technologies Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Japan Material Technologies Recent Developments/Updates

Table 79. Japan Material Technologies Competitive Strengths & Weaknesses

Table 80. Shikoku Chemicals Basic Information, Manufacturing Base and Competitors

Table 81. Shikoku Chemicals Major Business

Table 82. Shikoku Chemicals Low-DK Benzoxazine Resin Product and Services

Table 83. Shikoku Chemicals Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Shikoku Chemicals Recent Developments/Updates

Table 85. Shikoku Chemicals Competitive Strengths & Weaknesses

Table 86. JFE Chemical Basic Information, Manufacturing Base and Competitors

Table 87. JFE Chemical Major Business

Table 88. JFE Chemical Low-DK Benzoxazine Resin Product and Services

Table 89. JFE Chemical Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. JFE Chemical Recent Developments/Updates

Table 91. JFE Chemical Competitive Strengths & Weaknesses

Table 92. Tongyu Advanced Materials (Guangdong) Basic Information, Manufacturing Base and Competitors

Table 93. Tongyu Advanced Materials (Guangdong) Major Business

Table 94. Tongyu Advanced Materials (Guangdong) Low-DK Benzoxazine Resin Product and Services

Table 95. Tongyu Advanced Materials (Guangdong) Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Tongyu Advanced Materials (Guangdong) Recent Developments/Updates

Table 97. Tongyu Advanced Materials (Guangdong) Competitive Strengths & Weaknesses

Table 98. Sichuan EM Technology Basic Information, Manufacturing Base and Competitors

Table 99. Sichuan EM Technology Major Business

Table 100. Sichuan EM Technology Low-DK Benzoxazine Resin Product and Services

Table 101. Sichuan EM Technology Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Sichuan EM Technology Recent Developments/Updates

Table 103. Sichuan EM Technology Competitive Strengths & Weaknesses

Table 104. Jinan Shengquan Group Basic Information, Manufacturing Base and Competitors

Table 105. Jinan Shengquan Group Major Business

Table 106. Jinan Shengquan Group Low-DK Benzoxazine Resin Product and Services

Table 107. Jinan Shengquan Group Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Jinan Shengquan Group Recent Developments/Updates

Table 109. Jinan Shengquan Group Competitive Strengths & Weaknesses

Table 110. Chengdu Coryes Polymer Science & Technology Basic Information, Manufacturing Base and Competitors

Table 111. Chengdu Coryes Polymer Science & Technology Major Business

Table 112. Chengdu Coryes Polymer Science & Technology Low-DK Benzoxazine Resin Product and Services

Table 113. Chengdu Coryes Polymer Science & Technology Low-DK Benzoxazine Resin Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Chengdu Coryes Polymer Science & Technology Recent Developments/Updates

Table 115. Chengdu Coryes Polymer Science & Technology Competitive Strengths & Weaknesses

Table 116. Global Key Players of Low-DK Benzoxazine Resin Upstream (Raw Materials)

Table 117. Global Low-DK Benzoxazine Resin Typical Customers

Table 118. Low-DK Benzoxazine Resin Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Low-DK Benzoxazine Resin Picture

Figure 2. World Low-DK Benzoxazine Resin Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Low-DK Benzoxazine Resin Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Low-DK Benzoxazine Resin Production (2021-2032) & (Tons)

Figure 5. World Low-DK Benzoxazine Resin Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Low-DK Benzoxazine Resin Production Value Market Share by Region (2021-2032)

Figure 7. World Low-DK Benzoxazine Resin Production Market Share by Region (2021-2032)

Figure 8. North America Low-DK Benzoxazine Resin Production (2021-2032) & (Tons)

Figure 9. Japan Low-DK Benzoxazine Resin Production (2021-2032) & (Tons)

Figure 10. China Low-DK Benzoxazine Resin Production (2021-2032) & (Tons)

Figure 11. Low-DK Benzoxazine Resin Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 14. World Low-DK Benzoxazine Resin Consumption Market Share by Region (2021-2032)

Figure 15. United States Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 16. China Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 17. Europe Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 18. Japan Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 19. South Korea Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 20. ASEAN Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 21. India Low-DK Benzoxazine Resin Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of Low-DK Benzoxazine Resin by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Low-DK Benzoxazine Resin Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Low-DK Benzoxazine Resin Markets in 2025

Figure 25. United States VS China: Low-DK Benzoxazine Resin Production Value

Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Low-DK Benzoxazine Resin Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Low-DK Benzoxazine Resin Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Low-DK Benzoxazine Resin Production Market Share 2025

Figure 29. China Based Manufacturers Low-DK Benzoxazine Resin Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Low-DK Benzoxazine Resin Production Market Share 2025

Figure 31. World Low-DK Benzoxazine Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Low-DK Benzoxazine Resin Production Value Market Share by Type in 2025

Figure 33. Monofunctional Type

Figure 34. Difunctional Type

Figure 35. Multifunctional Type

Figure 36. World Low-DK Benzoxazine Resin Production Market Share by Type (2021-2032)

Figure 37. World Low-DK Benzoxazine Resin Production Value Market Share by Type (2021-2032)

Figure 38. World Low-DK Benzoxazine Resin Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Low-DK Benzoxazine Resin Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Low-DK Benzoxazine Resin Production Value Market Share by Form in 2025

Figure 41. Solvent Type

Figure 42. Granular Type

Figure 43. Prepolymer Type

Figure 44. World Low-DK Benzoxazine Resin Production Market Share by Form (2021-2032)

Figure 45. World Low-DK Benzoxazine Resin Production Value Market Share by Form (2021-2032)

Figure 46. World Low-DK Benzoxazine Resin Average Price by Form (2021-2032) & (US\$/Ton)

Figure 47. World Low-DK Benzoxazine Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Low-DK Benzoxazine Resin Production Value Market Share by Application in 2025

Figure 49. High-Frequency And High-Speed Copper-Clad Laminate

Figure 50. Prepreg

Figure 51. Package Substrate

Figure 52. Semiconductor Packaging Material

Figure 53. High-Frequency Composite Material

Figure 54. Other

Figure 55. World Low-DK Benzoxazine Resin Production Market Share by Application (2021-2032)

Figure 56. World Low-DK Benzoxazine Resin Production Value Market Share by Application (2021-2032)

Figure 57. World Low-DK Benzoxazine Resin Average Price by Application (2021-2032) & (US\$/Ton)

Figure 58. Low-DK Benzoxazine Resin Industry Chain

Figure 59. Low-DK Benzoxazine Resin Procurement Model

Figure 60. Low-DK Benzoxazine Resin Sales Model

Figure 61. Low-DK Benzoxazine Resin Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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