

Global LED Encapsulation Market Growth 2025-2031

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Abstracts

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The global LED Encapsulation market size is predicted to grow from US\$ 2157 million in 2025 to US\$ 2753 million in 2031; it is expected to grow at a CAGR of 4.1% from 2025 to 2031.

Encapsulation of LEDs is a crucial process that provides protection from external factors, enhances durability, and improves performance. Various encapsulation techniques allow the use of LEDs in a wide range of applications, from outdoor lighting to automotive and advanced industrial systems.

Global core LED encapsulation manufacturers include DuPont, Shin-Etsu Chemical etc. The top 5 companies hold a share over 42%. Asia-Pacific and North America are the world's two major markets, with a combined market share of more than 70%.

As the LED, or light emitting diodes, lighting market continues to grow at an increasingly robust pace, the demand for LED encapsulants and underfill materials is predicted to grow accordingly. In fact, lighting, not TV backlight units, is now the key driver of the LED encapsulant market. LED-use encapsulants are categorized into epoxy, silicone, polyurethane types.

Technological innovation is one of the key factors driving the development of the LED sealant industry. The mainstream products on the market have evolved from the initial single-component room temperature curing type to the two-component addition type, and are moving towards higher performance. For example, the UV-curing optical sealant launched by Debang Technology not only has a faster curing speed, but also can withstand higher temperatures and stronger light intensity, greatly extending the service life of LED lamps.

With the continuous advancement of LED technology, the performance requirements for sealants are also constantly increasing. High-performance sealants can better protect LED chips, improve their stability and service life, thereby meeting the market demand for high-quality LED products.

With the rapid development of the new energy vehicle market, the demand for high-quality LED headlights is increasing, which in turn drives the growth of related sealing material sales.

In addition, the general lighting market, display industry, medical equipment, signal lights and other fields also have a large demand for LED sealants. The rapid development of these fields provides a broad growth space for the LED sealant market.

The government's support for the semiconductor lighting industry continues to increase, providing a good external environment for the LED sealant industry. Policy support helps promote the research and development and application of LED technology, thereby promoting the development of the LED sealant market.

LP Information, Inc. (LPI) ' newest research report, the "LED Encapsulation Industry Forecast" looks at past sales and reviews total world LED Encapsulation sales in 2024, providing a comprehensive analysis by region and market sector of projected LED Encapsulation sales for 2025 through 2031. With LED Encapsulation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LED Encapsulation industry.

This Insight Report provides a comprehensive analysis of the global LED Encapsulation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LED Encapsulation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LED Encapsulation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LED Encapsulation and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global LED Encapsulation.

This report presents a comprehensive overview, market shares, and growth opportunities of LED Encapsulation market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Epoxy

Silicone

Polyurethane

Segmentation by Application:

Consumer Electronics

Automotive

Architectural Lighting

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DuPont

Shin-Etsu Chemical

Momentive

Henkel

Nagase

H.B. Fuller

Wacker Chemie AG

Nitto Denko Corporation

Nusil

Hitachi Chemical

Quantum Silicones (CHT)

SolEpoxy

Epic Resins

CHT Group

Debang

Key Questions Addressed in this Report

What is the 10-year outlook for the global LED Encapsulation market?

What factors are driving LED Encapsulation market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LED Encapsulation market opportunities vary by end market size?

How does LED Encapsulation break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global LED Encapsulation Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for LED Encapsulation by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for LED Encapsulation by Country/Region, 2020, 2024 & 2031
- 2.2 LED Encapsulation Segment by Type
 - 2.2.1 Epoxy
 - 2.2.2 Silicone
 - 2.2.3 Polyurethane
- 2.3 LED Encapsulation Sales by Type
 - 2.3.1 Global LED Encapsulation Sales Market Share by Type (2020-2025)
 - 2.3.2 Global LED Encapsulation Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global LED Encapsulation Sale Price by Type (2020-2025)
- 2.4 LED Encapsulation Segment by Application
 - 2.4.1 Consumer Electronics
 - 2.4.2 Automotive
 - 2.4.3 Architectural Lighting
 - 2.4.4 Others
- 2.5 LED Encapsulation Sales by Application
 - 2.5.1 Global LED Encapsulation Sale Market Share by Application (2020-2025)
 - 2.5.2 Global LED Encapsulation Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global LED Encapsulation Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global LED Encapsulation Breakdown Data by Company

3.1.1 Global LED Encapsulation Annual Sales by Company (2020-2025)

3.1.2 Global LED Encapsulation Sales Market Share by Company (2020-2025)

3.2 Global LED Encapsulation Annual Revenue by Company (2020-2025)

3.2.1 Global LED Encapsulation Revenue by Company (2020-2025)

3.2.2 Global LED Encapsulation Revenue Market Share by Company (2020-2025)

3.3 Global LED Encapsulation Sale Price by Company

3.4 Key Manufacturers LED Encapsulation Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers LED Encapsulation Product Location Distribution

3.4.2 Players LED Encapsulation Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR LED ENCAPSULATION BY GEOGRAPHIC REGION

4.1 World Historic LED Encapsulation Market Size by Geographic Region (2020-2025)

4.1.1 Global LED Encapsulation Annual Sales by Geographic Region (2020-2025)

4.1.2 Global LED Encapsulation Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic LED Encapsulation Market Size by Country/Region (2020-2025)

4.2.1 Global LED Encapsulation Annual Sales by Country/Region (2020-2025)

4.2.2 Global LED Encapsulation Annual Revenue by Country/Region (2020-2025)

4.3 Americas LED Encapsulation Sales Growth

4.4 APAC LED Encapsulation Sales Growth

4.5 Europe LED Encapsulation Sales Growth

4.6 Middle East & Africa LED Encapsulation Sales Growth

5 AMERICAS

5.1 Americas LED Encapsulation Sales by Country

5.1.1 Americas LED Encapsulation Sales by Country (2020-2025)

5.1.2 Americas LED Encapsulation Revenue by Country (2020-2025)

- 5.2 Americas LED Encapsulation Sales by Type (2020-2025)
- 5.3 Americas LED Encapsulation Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC LED Encapsulation Sales by Region
 - 6.1.1 APAC LED Encapsulation Sales by Region (2020-2025)
 - 6.1.2 APAC LED Encapsulation Revenue by Region (2020-2025)
- 6.2 APAC LED Encapsulation Sales by Type (2020-2025)
- 6.3 APAC LED Encapsulation Sales by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe LED Encapsulation by Country
 - 7.1.1 Europe LED Encapsulation Sales by Country (2020-2025)
 - 7.1.2 Europe LED Encapsulation Revenue by Country (2020-2025)
- 7.2 Europe LED Encapsulation Sales by Type (2020-2025)
- 7.3 Europe LED Encapsulation Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa LED Encapsulation by Country
 - 8.1.1 Middle East & Africa LED Encapsulation Sales by Country (2020-2025)

- 8.1.2 Middle East & Africa LED Encapsulation Revenue by Country (2020-2025)
- 8.2 Middle East & Africa LED Encapsulation Sales by Type (2020-2025)
- 8.3 Middle East & Africa LED Encapsulation Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of LED Encapsulation
- 10.3 Manufacturing Process Analysis of LED Encapsulation
- 10.4 Industry Chain Structure of LED Encapsulation

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 LED Encapsulation Distributors
- 11.3 LED Encapsulation Customer

12 WORLD FORECAST REVIEW FOR LED ENCAPSULATION BY GEOGRAPHIC REGION

- 12.1 Global LED Encapsulation Market Size Forecast by Region
 - 12.1.1 Global LED Encapsulation Forecast by Region (2026-2031)
 - 12.1.2 Global LED Encapsulation Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global LED Encapsulation Forecast by Type (2026-2031)

12.7 Global LED Encapsulation Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 DuPont

13.1.1 DuPont Company Information

13.1.2 DuPont LED Encapsulation Product Portfolios and Specifications

13.1.3 DuPont LED Encapsulation Sales, Revenue, Price and Gross Margin
(2020-2025)

13.1.4 DuPont Main Business Overview

13.1.5 DuPont Latest Developments

13.2 Shin-Etsu Chemical

13.2.1 Shin-Etsu Chemical Company Information

13.2.2 Shin-Etsu Chemical LED Encapsulation Product Portfolios and Specifications

13.2.3 Shin-Etsu Chemical LED Encapsulation Sales, Revenue, Price and Gross
Margin (2020-2025)

13.2.4 Shin-Etsu Chemical Main Business Overview

13.2.5 Shin-Etsu Chemical Latest Developments

13.3 Momenive

13.3.1 Momenive Company Information

13.3.2 Momenive LED Encapsulation Product Portfolios and Specifications

13.3.3 Momenive LED Encapsulation Sales, Revenue, Price and Gross Margin
(2020-2025)

13.3.4 Momenive Main Business Overview

13.3.5 Momenive Latest Developments

13.4 Henkel

13.4.1 Henkel Company Information

13.4.2 Henkel LED Encapsulation Product Portfolios and Specifications

13.4.3 Henkel LED Encapsulation Sales, Revenue, Price and Gross Margin
(2020-2025)

13.4.4 Henkel Main Business Overview

13.4.5 Henkel Latest Developments

13.5 Nagase

13.5.1 Nagase Company Information

13.5.2 Nagase LED Encapsulation Product Portfolios and Specifications

13.5.3 Nagase LED Encapsulation Sales, Revenue, Price and Gross Margin
(2020-2025)

- 13.5.4 Nagase Main Business Overview
- 13.5.5 Nagase Latest Developments
- 13.6 H.B. Fuller
 - 13.6.1 H.B. Fuller Company Information
 - 13.6.2 H.B. Fuller LED Encapsulation Product Portfolios and Specifications
 - 13.6.3 H.B. Fuller LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 H.B. Fuller Main Business Overview
 - 13.6.5 H.B. Fuller Latest Developments
- 13.7 Wacker Chemie AG
 - 13.7.1 Wacker Chemie AG Company Information
 - 13.7.2 Wacker Chemie AG LED Encapsulation Product Portfolios and Specifications
 - 13.7.3 Wacker Chemie AG LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Wacker Chemie AG Main Business Overview
 - 13.7.5 Wacker Chemie AG Latest Developments
- 13.8 Nitto Denko Corporation
 - 13.8.1 Nitto Denko Corporation Company Information
 - 13.8.2 Nitto Denko Corporation LED Encapsulation Product Portfolios and Specifications
 - 13.8.3 Nitto Denko Corporation LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Nitto Denko Corporation Main Business Overview
 - 13.8.5 Nitto Denko Corporation Latest Developments
- 13.9 Nasil
 - 13.9.1 Nasil Company Information
 - 13.9.2 Nasil LED Encapsulation Product Portfolios and Specifications
 - 13.9.3 Nasil LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Nasil Main Business Overview
 - 13.9.5 Nasil Latest Developments
- 13.10 Hitachi Chemical
 - 13.10.1 Hitachi Chemical Company Information
 - 13.10.2 Hitachi Chemical LED Encapsulation Product Portfolios and Specifications
 - 13.10.3 Hitachi Chemical LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Hitachi Chemical Main Business Overview
 - 13.10.5 Hitachi Chemical Latest Developments
- 13.11 Quantum Silicones (CHT)
 - 13.11.1 Quantum Silicones (CHT) Company Information

13.11.2 Quantum Silicones (CHT) LED Encapsulation Product Portfolios and Specifications

13.11.3 Quantum Silicones (CHT) LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Quantum Silicones (CHT) Main Business Overview

13.11.5 Quantum Silicones (CHT) Latest Developments

13.12 SolEpoxy

13.12.1 SolEpoxy Company Information

13.12.2 SolEpoxy LED Encapsulation Product Portfolios and Specifications

13.12.3 SolEpoxy LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 SolEpoxy Main Business Overview

13.12.5 SolEpoxy Latest Developments

13.13 Epic Resins

13.13.1 Epic Resins Company Information

13.13.2 Epic Resins LED Encapsulation Product Portfolios and Specifications

13.13.3 Epic Resins LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Epic Resins Main Business Overview

13.13.5 Epic Resins Latest Developments

13.14 CHT Group

13.14.1 CHT Group Company Information

13.14.2 CHT Group LED Encapsulation Product Portfolios and Specifications

13.14.3 CHT Group LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 CHT Group Main Business Overview

13.14.5 CHT Group Latest Developments

13.15 Debang

13.15.1 Debang Company Information

13.15.2 Debang LED Encapsulation Product Portfolios and Specifications

13.15.3 Debang LED Encapsulation Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 Debang Main Business Overview

13.15.5 Debang Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

Table 1. LED Encapsulation Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
Table 2. LED Encapsulation Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
Table 3. Major Players of Epoxy
Table 4. Major Players of Silicone
Table 5. Major Players of Polyurethane
Table 6. Global LED Encapsulation Sales byType (2020-2025) & (MT)
Table 7. Global LED Encapsulation Sales Market Share byType (2020-2025)
Table 8. Global LED Encapsulation Revenue byType (2020-2025) & (\$ million)
Table 9. Global LED Encapsulation Revenue Market Share byType (2020-2025)
Table 10. Global LED Encapsulation Sale Price byType (2020-2025) & (K USD/MT)
Table 11. Global LED Encapsulation Sale by Application (2020-2025) & (MT)
Table 12. Global LED Encapsulation Sale Market Share by Application (2020-2025)
Table 13. Global LED Encapsulation Revenue by Application (2020-2025) & (\$ million)
Table 14. Global LED Encapsulation Revenue Market Share by Application (2020-2025)
Table 15. Global LED Encapsulation Sale Price by Application (2020-2025) & (K USD/MT)
Table 16. Global LED Encapsulation Sales by Company (2020-2025) & (MT)
Table 17. Global LED Encapsulation Sales Market Share by Company (2020-2025)
Table 18. Global LED Encapsulation Revenue by Company (2020-2025) & (\$ millions)
Table 19. Global LED Encapsulation Revenue Market Share by Company (2020-2025)
Table 20. Global LED Encapsulation Sale Price by Company (2020-2025) & (K USD/MT)
Table 21. Key Manufacturers LED Encapsulation Producing Area Distribution and Sales Area
Table 22. Players LED Encapsulation Products Offered
Table 23. LED Encapsulation Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global LED Encapsulation Sales by Geographic Region (2020-2025) & (MT)
Table 27. Global LED Encapsulation Sales Market Share Geographic Region (2020-2025)
Table 28. Global LED Encapsulation Revenue by Geographic Region (2020-2025) & (\$ millions)
Table 29. Global LED Encapsulation Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global LED Encapsulation Sales by Country/Region (2020-2025) & (MT)

Table 31. Global LED Encapsulation Sales Market Share by Country/Region (2020-2025)

Table 32. Global LED Encapsulation Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global LED Encapsulation Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas LED Encapsulation Sales by Country (2020-2025) & (MT)

Table 35. Americas LED Encapsulation Sales Market Share by Country (2020-2025)

Table 36. Americas LED Encapsulation Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas LED Encapsulation Sales byType (2020-2025) & (MT)

Table 38. Americas LED Encapsulation Sales by Application (2020-2025) & (MT)

Table 39. APAC LED Encapsulation Sales by Region (2020-2025) & (MT)

Table 40. APAC LED Encapsulation Sales Market Share by Region (2020-2025)

Table 41. APAC LED Encapsulation Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC LED Encapsulation Sales byType (2020-2025) & (MT)

Table 43. APAC LED Encapsulation Sales by Application (2020-2025) & (MT)

Table 44. Europe LED Encapsulation Sales by Country (2020-2025) & (MT)

Table 45. Europe LED Encapsulation Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe LED Encapsulation Sales byType (2020-2025) & (MT)

Table 47. Europe LED Encapsulation Sales by Application (2020-2025) & (MT)

Table 48. Middle East & Africa LED Encapsulation Sales by Country (2020-2025) & (MT)

Table 49. Middle East & Africa LED Encapsulation Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa LED Encapsulation Sales byType (2020-2025) & (MT)

Table 51. Middle East & Africa LED Encapsulation Sales by Application (2020-2025) & (MT)

Table 52. Key Market Drivers & Growth Opportunities of LED Encapsulation

Table 53. Key Market Challenges & Risks of LED Encapsulation

Table 54. Key IndustryTrends of LED Encapsulation

Table 55. LED Encapsulation Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. LED Encapsulation Distributors List

Table 58. LED Encapsulation Customer List

Table 59. Global LED Encapsulation SalesForecast by Region (2026-2031) & (MT)

Table 60. Global LED Encapsulation RevenueForecast by Region (2026-2031) & (\$ millions)

Table 61. Americas LED Encapsulation SalesForecast by Country (2026-2031) & (MT)

Table 62. Americas LED Encapsulation Annual RevenueForecast by Country (2026-2031) & (\$ millions)
Table 63. APAC LED Encapsulation SalesForecast by Region (2026-2031) & (MT)
Table 64. APAC LED Encapsulation Annual RevenueForecast by Region (2026-2031) & (\$ millions)
Table 65. Europe LED Encapsulation SalesForecast by Country (2026-2031) & (MT)
Table 66. Europe LED Encapsulation RevenueForecast by Country (2026-2031) & (\$ millions)
Table 67. Middle East & Africa LED Encapsulation SalesForecast by Country (2026-2031) & (MT)
Table 68. Middle East & Africa LED Encapsulation RevenueForecast by Country (2026-2031) & (\$ millions)
Table 69. Global LED Encapsulation SalesForecast byType (2026-2031) & (MT)
Table 70. Global LED Encapsulation RevenueForecast byType (2026-2031) & (\$ millions)
Table 71. Global LED Encapsulation SalesForecast by Application (2026-2031) & (MT)
Table 72. Global LED Encapsulation RevenueForecast by Application (2026-2031) & (\$ millions)
Table 73. DuPont Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 74. DuPont LED Encapsulation Product Portfolios and Specifications
Table 75. DuPont LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 76. DuPont Main Business
Table 77. DuPont Latest Developments
Table 78. Shin-Etsu Chemical Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 79. Shin-Etsu Chemical LED Encapsulation Product Portfolios and Specifications
Table 80. Shin-Etsu Chemical LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 81. Shin-Etsu Chemical Main Business
Table 82. Shin-Etsu Chemical Latest Developments
Table 83. Momenive Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 84. Momenive LED Encapsulation Product Portfolios and Specifications
Table 85. Momenive LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 86. Momenive Main Business
Table 87. Momenive Latest Developments

Table 88. Henkel Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 89. Henkel LED Encapsulation Product Portfolios and Specifications

Table 90. Henkel LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 91. Henkel Main Business

Table 92. Henkel Latest Developments

Table 93. Nagase Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 94. Nagase LED Encapsulation Product Portfolios and Specifications

Table 95. Nagase LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 96. Nagase Main Business

Table 97. Nagase Latest Developments

Table 98. H.B.Fuller Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 99. H.B.Fuller LED Encapsulation Product Portfolios and Specifications

Table 100. H.B.Fuller LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 101. H.B.Fuller Main Business

Table 102. H.B.Fuller Latest Developments

Table 103. Wacker Chemie AG Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 104. Wacker Chemie AG LED Encapsulation Product Portfolios and Specifications

Table 105. Wacker Chemie AG LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 106. Wacker Chemie AG Main Business

Table 107. Wacker Chemie AG Latest Developments

Table 108. Nitto Denko Corporation Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 109. Nitto Denko Corporation LED Encapsulation Product Portfolios and Specifications

Table 110. Nitto Denko Corporation LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 111. Nitto Denko Corporation Main Business

Table 112. Nitto Denko Corporation Latest Developments

Table 113. Nusal Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 114. Nusil LED Encapsulation Product Portfolios and Specifications
Table 115. Nusil LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 116. Nusil Main Business
Table 117. Nusil Latest Developments
Table 118. Hitachi Chemical Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 119. Hitachi Chemical LED Encapsulation Product Portfolios and Specifications
Table 120. Hitachi Chemical LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 121. Hitachi Chemical Main Business
Table 122. Hitachi Chemical Latest Developments
Table 123. Quantum Silicones (CHT) Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 124. Quantum Silicones (CHT) LED Encapsulation Product Portfolios and Specifications
Table 125. Quantum Silicones (CHT) LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 126. Quantum Silicones (CHT) Main Business
Table 127. Quantum Silicones (CHT) Latest Developments
Table 128. SolEpoxy Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 129. SolEpoxy LED Encapsulation Product Portfolios and Specifications
Table 130. SolEpoxy LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 131. SolEpoxy Main Business
Table 132. SolEpoxy Latest Developments
Table 133. Epic Resins Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 134. Epic Resins LED Encapsulation Product Portfolios and Specifications
Table 135. Epic Resins LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)
Table 136. Epic Resins Main Business
Table 137. Epic Resins Latest Developments
Table 138. CHT Group Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors
Table 139. CHT Group LED Encapsulation Product Portfolios and Specifications
Table 140. CHT Group LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 141. CHT Group Main Business

Table 142. CHT Group Latest Developments

Table 143. Debang Basic Information, LED Encapsulation Manufacturing Base, Sales Area and Its Competitors

Table 144. Debang LED Encapsulation Product Portfolios and Specifications

Table 145. Debang LED Encapsulation Sales (MT), Revenue (\$ Million), Price (K USD/MT) and Gross Margin (2020-2025)

Table 146. Debang Main Business

Table 147. Debang Latest Developments

LIST OFFIGURES

Figure 1. Picture of LED Encapsulation

Figure 2. LED Encapsulation Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global LED Encapsulation Sales Growth Rate 2020-2031 (MT)

Figure 7. Global LED Encapsulation Revenue Growth Rate 2020-2031 (\$ millions)

Figure 8. LED Encapsulation Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 9. LED Encapsulation Sales Market Share by Country/Region (2024)

Figure 10. LED Encapsulation Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 11. Product Picture of Epoxy

Figure 12. Product Picture of Silicone

Figure 13. Product Picture of Polyurethane

Figure 14. Global LED Encapsulation Sales Market Share byType in 2025

Figure 15. Global LED Encapsulation Revenue Market Share byType (2020-2025)

Figure 16. LED Encapsulation Consumed in Consumer Electronics

Figure 17. Global LED Encapsulation Market: Consumer Electronics (2020-2025) & (MT)

Figure 18. LED Encapsulation Consumed in Automotive

Figure 19. Global LED Encapsulation Market: Automotive (2020-2025) & (MT)

Figure 20. LED Encapsulation Consumed in Architectural Lighting

Figure 21. Global LED Encapsulation Market: Architectural Lighting (2020-2025) & (MT)

Figure 22. LED Encapsulation Consumed in Others

- Figure 23. Global LED Encapsulation Market: Others (2020-2025) & (MT)
- Figure 24. Global LED Encapsulation Sale Market Share by Application (2024)
- Figure 25. Global LED Encapsulation Revenue Market Share by Application in 2025
- Figure 26. LED Encapsulation Sales by Company in 2025 (MT)
- Figure 27. Global LED Encapsulation Sales Market Share by Company in 2025
- Figure 28. LED Encapsulation Revenue by Company in 2025 (\$ millions)
- Figure 29. Global LED Encapsulation Revenue Market Share by Company in 2025
- Figure 30. Global LED Encapsulation Sales Market Share by Geographic Region (2020-2025)
- Figure 31. Global LED Encapsulation Revenue Market Share by Geographic Region in 2025
- Figure 32. Americas LED Encapsulation Sales 2020-2025 (MT)
- Figure 33. Americas LED Encapsulation Revenue 2020-2025 (\$ millions)
- Figure 34. APAC LED Encapsulation Sales 2020-2025 (MT)
- Figure 35. APAC LED Encapsulation Revenue 2020-2025 (\$ millions)
- Figure 36. Europe LED Encapsulation Sales 2020-2025 (MT)
- Figure 37. Europe LED Encapsulation Revenue 2020-2025 (\$ millions)
- Figure 38. Middle East & Africa LED Encapsulation Sales 2020-2025 (MT)
- Figure 39. Middle East & Africa LED Encapsulation Revenue 2020-2025 (\$ millions)
- Figure 40. Americas LED Encapsulation Sales Market Share by Country in 2025
- Figure 41. Americas LED Encapsulation Revenue Market Share by Country (2020-2025)
- Figure 42. Americas LED Encapsulation Sales Market Share byType (2020-2025)
- Figure 43. Americas LED Encapsulation Sales Market Share by Application (2020-2025)
- Figure 44. United States LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 45. Canada LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 46. Mexico LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 47. Brazil LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 48. APAC LED Encapsulation Sales Market Share by Region in 2025
- Figure 49. APAC LED Encapsulation Revenue Market Share by Region (2020-2025)
- Figure 50. APAC LED Encapsulation Sales Market Share byType (2020-2025)
- Figure 51. APAC LED Encapsulation Sales Market Share by Application (2020-2025)
- Figure 52. China LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 53. Japan LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 54. South Korea LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 55. Southeast Asia LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 56. India LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 57. Australia LED Encapsulation Revenue Growth 2020-2025 (\$ millions)

- Figure 58. ChinaTaiwan LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 59. Europe LED Encapsulation Sales Market Share by Country in 2025
- Figure 60. Europe LED Encapsulation Revenue Market Share by Country (2020-2025)
- Figure 61. Europe LED Encapsulation Sales Market Share byType (2020-2025)
- Figure 62. Europe LED Encapsulation Sales Market Share by Application (2020-2025)
- Figure 63. Germany LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 64. France LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 65. UK LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 66. Italy LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 67. Russia LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 68. Middle East & Africa LED Encapsulation Sales Market Share by Country (2020-2025)
- Figure 69. Middle East & Africa LED Encapsulation Sales Market Share byType (2020-2025)
- Figure 70. Middle East & Africa LED Encapsulation Sales Market Share by Application (2020-2025)
- Figure 71. Egypt LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 72. South Africa LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 73. Israel LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 74. Turkey LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 75. GCC Countries LED Encapsulation Revenue Growth 2020-2025 (\$ millions)
- Figure 76. Manufacturing Cost Structure Analysis of LED Encapsulation in 2025
- Figure 77. Manufacturing Process Analysis of LED Encapsulation
- Figure 78. Industry Chain Structure of LED Encapsulation
- Figure 79. Channels of Distribution
- Figure 80. Global LED Encapsulation Sales MarketForecast by Region (2026-2031)
- Figure 81. Global LED Encapsulation Revenue Market ShareForecast by Region (2026-2031)
- Figure 82. Global LED Encapsulation Sales Market ShareForecast byType (2026-2031)
- Figure 83. Global LED Encapsulation Revenue Market ShareForecast byType (2026-2031)
- Figure 84. Global LED Encapsulation Sales Market ShareForecast by Application (2026-2031)
- Figure 85. Global LED Encapsulation Revenue Market ShareForecast by Application (2026-2031)

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