

Global Graphic Composite Substrate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphic Composite Substrate market size is expected to reach \$ 168 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Graphic Composite Substrate, commonly referred to as MMS, is a high-performance functional substrate used for GaN-based LED epitaxy. It is typically manufactured by adding functional material layers such as SiO₂, AlN, SiC or other engineered films onto a sapphire wafer, followed by lithography, ICP etching, nanoimprint, PECVD/CVD deposition and micro-/nano-pattern transfer processes to form periodic patterned structures. The key purpose of MMS is to improve the GaN epitaxial growth interface, reduce defect density, enhance stress management, increase light extraction efficiency and support higher brightness, better uniformity and improved reliability in LED devices. This research focuses on commercially relevant MMS products for LED and GaN-on-sapphire applications, mainly covering 4-inch and 6-inch substrates, with demand exposure to Mini/Micro LED, automotive LED, high-end backlighting, RGB direct-view displays, high-efficiency lighting and selected emerging GaN power-related use cases.

Based on our research, MMS should be treated as a narrow, high-end derivative of patterned sapphire substrate technology rather than a broad sapphire wafer category. Conventional PSS improves GaN epitaxy and light extraction mainly through patterned surface structures, while MMS adds functional material layers such as SiO₂, AlN or SiC before or during pattern formation. This gives MMS a dual function: structural light-management and engineered interface control. Therefore, a market model that combines MMS with flat sapphire wafers or the entire PSS market would materially overstate the addressable revenue base. In this report, MMS is defined as a focused LED/GaN-on-sapphire substrate segment, while PSS and NPSS manufacturers are

retained in the wider company pool as adjacent suppliers and potential entrants.

Demand growth is driven by high-performance LED applications that require better brightness, uniformity, reliability and epitaxial quality. High-efficiency lighting remains the base market, while automotive LEDs, high-end backlighting and RGB direct-view displays provide higher-value use cases. Mini/Micro LED is the most important medium- to long-term demand driver because smaller chip sizes increase sensitivity to defect density, wavelength consistency and yield loss. MMS adoption will therefore depend less on the number of suppliers and more on the penetration of high-end LED applications, the transition toward 6-inch substrates, and continuous improvements in composite material layers and micro-/nano-pattern designs.

The competitive landscape is expected to remain layered. A small number of confirmed MMS suppliers will lead the commercial market, several PSS/NPSS manufacturers will provide potential expansion capacity, and selected LED chip makers may continue internal process development. The barriers to entry are higher than for flat sapphire wafers because MMS requires integrated know-how in thin-film deposition, pattern design, etching uniformity, material-interface control and customer qualification. If Micro LED commercialization progresses slowly, MMS growth may moderate, but automotive lighting, high-end display backlighting and performance-driven LED upgrades should continue to support a structurally positive outlook.

This report studies the global Graphic Composite Substrate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphic Composite Substrate 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 Graphic Composite Substrate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Graphic Composite Substrate total production and demand, 2021-2032, (K Pcs)
Global Graphic Composite Substrate total production value, 2021-2032, (USD Million)
Global Graphic Composite Substrate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)
Global Graphic Composite Substrate consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Graphic Composite Substrate domestic production, consumption, key domestic manufacturers and share

Global Graphic Composite Substrate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Graphic Composite Substrate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Graphic Composite Substrate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Graphic Composite Substrate 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 Sinopatt Technology Co., Ltd., Sanan Optoelectronics Co., Ltd., Zhejiang Brolight Semiconductor Technology Co., Ltd., Xuzhou Gapss Oe Technology Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Graphic Composite Substrate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Graphic Composite Substrate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphic Composite Substrate Market, Segmentation by Type:

Standard MMS

Customized MMS

Other MMS

Global Graphic Composite Substrate Market, Segmentation by Wafer Size:

2-inch MMS

4-inch MMS

6-inch MMS

8-inch and Above MMS

Custom-size MMS

Global Graphic Composite Substrate Market, Segmentation by Composite Material Layer:

SiO₂-based MMS

AlN-based MMS

SiC-based MMS

Multi-layer MMS

Other Material MMS

Global Graphic Composite Substrate Market, Segmentation by Application:

Illumination

Electronic Engineering

Others

Companies Profiled:

Sinopatt Technology Co., Ltd.

Sanan Optoelectronics Co., Ltd.

Zhejiang Brolight Semiconductor Technology Co., Ltd.

Xuzhou Gapss Oe Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Graphic Composite Substrate market?
2. What is the demand of the global Graphic Composite Substrate market?
3. What is the year over year growth of the global Graphic Composite Substrate market?
4. What is the production and production value of the global Graphic Composite Substrate market?
5. Who are the key producers in the global Graphic Composite Substrate market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Graphic Composite Substrate Introduction
- 1.2 World Graphic Composite Substrate Supply & Forecast
 - 1.2.1 World Graphic Composite Substrate Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Graphic Composite Substrate Production (2021-2032)
 - 1.2.3 World Graphic Composite Substrate Pricing Trends (2021-2032)
- 1.3 World Graphic Composite Substrate Production by Region (Based on Production Site)
 - 1.3.1 World Graphic Composite Substrate Production Value by Region (2021-2032)
 - 1.3.2 World Graphic Composite Substrate Production by Region (2021-2032)
 - 1.3.3 World Graphic Composite Substrate Average Price by Region (2021-2032)
 - 1.3.4 China Graphic Composite Substrate Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Graphic Composite Substrate Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Graphic Composite Substrate Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Graphic Composite Substrate Production Value by Manufacturer (2021-2026)
- 3.2 World Graphic Composite Substrate Production by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers Graphic Composite Substrate Production Value (2021-2026)

4.4.3 United States Based Manufacturers Graphic Composite Substrate Production (2021-2026)

4.5 China Based Graphic Composite Substrate Manufacturers and Market Share

4.5.1 China Based Graphic Composite Substrate Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Graphic Composite Substrate Production Value (2021-2026)

4.5.3 China Based Manufacturers Graphic Composite Substrate Production (2021-2026)

4.6 Rest of World Based Graphic Composite Substrate Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Graphic Composite Substrate Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Graphic Composite Substrate Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Graphic Composite Substrate Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Graphic Composite Substrate Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Standard MMS

5.2.2 Customized MMS

5.2.3 Other MMS

5.3 Market Segment by Type

5.3.1 World Graphic Composite Substrate Production by Type (2021-2032)

5.3.2 World Graphic Composite Substrate Production Value by Type (2021-2032)

5.3.3 World Graphic Composite Substrate Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY WAFER SIZE

6.1 World Graphic Composite Substrate Market Size Overview by Wafer Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Wafer Size

6.2.1 2-inch MMS

6.2.2 4-inch MMS

6.2.3 6-inch MMS

6.2.4 8-inch and Above MMS

6.2.5 Custom-size MMS

6.3 Market Segment by Wafer Size

6.3.1 World Graphic Composite Substrate Production by Wafer Size (2021-2032)

6.3.2 World Graphic Composite Substrate Production Value by Wafer Size
(2021-2032)

6.3.3 World Graphic Composite Substrate Average Price by Wafer Size (2021-2032)

7 MARKET ANALYSIS BY COMPOSITE MATERIAL LAYER

7.1 World Graphic Composite Substrate Market Size Overview by Composite Material Layer: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Composite Material Layer

7.2.1 SiO₂-based MMS

7.2.2 AlN-based MMS

7.2.3 SiC-based MMS

7.2.4 Multi-layer MMS

7.2.5 Other Material MMS

7.3 Market Segment by Composite Material Layer

7.3.1 World Graphic Composite Substrate Production by Composite Material Layer
(2021-2032)

7.3.2 World Graphic Composite Substrate Production Value by Composite Material Layer
(2021-2032)

7.3.3 World Graphic Composite Substrate Average Price by Composite Material Layer
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Graphic Composite Substrate Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Illumination

8.2.2 Electronic Engineering

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Graphic Composite Substrate Production by Application (2021-2032)

8.3.2 World Graphic Composite Substrate Production Value by Application

(2021-2032)

8.3.3 World Graphic Composite Substrate Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sinopatt Technology Co., Ltd.

9.1.1 Sinopatt Technology Co., Ltd. Details

9.1.2 Sinopatt Technology Co., Ltd. Major Business

9.1.3 Sinopatt Technology Co., Ltd. Graphic Composite Substrate Product and Services

9.1.4 Sinopatt Technology Co., Ltd. Graphic Composite Substrate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Sinopatt Technology Co., Ltd. Recent Developments/Updates

9.1.6 Sinopatt Technology Co., Ltd. Competitive Strengths & Weaknesses

9.2 Sanan Optoelectronics Co., Ltd.

9.2.1 Sanan Optoelectronics Co., Ltd. Details

9.2.2 Sanan Optoelectronics Co., Ltd. Major Business

9.2.3 Sanan Optoelectronics Co., Ltd. Graphic Composite Substrate Product and Services

9.2.4 Sanan Optoelectronics Co., Ltd. Graphic Composite Substrate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Sanan Optoelectronics Co., Ltd. Recent Developments/Updates

9.2.6 Sanan Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

9.3 Zhejiang Brolight Semiconductor Technology Co., Ltd.

9.3.1 Zhejiang Brolight Semiconductor Technology Co., Ltd. Details

9.3.2 Zhejiang Brolight Semiconductor Technology Co., Ltd. Major Business

9.3.3 Zhejiang Brolight Semiconductor Technology Co., Ltd. Graphic Composite Substrate Product and Services

9.3.4 Zhejiang Brolight Semiconductor Technology Co., Ltd. Graphic Composite Substrate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Brolight Semiconductor Technology Co., Ltd. Recent Developments/Updates

9.3.6 Zhejiang Brolight Semiconductor Technology Co., Ltd. Competitive Strengths & Weaknesses

9.4 Xuzhou Gapss Oe Technology Co., Ltd.

9.4.1 Xuzhou Gapss Oe Technology Co., Ltd. Details

9.4.2 Xuzhou Gapss Oe Technology Co., Ltd. Major Business

9.4.3 Xuzhou Gapss Oe Technology Co., Ltd. Graphic Composite Substrate Product and Services

- 9.4.4 Xuzhou Gapss Oe Technology Co., Ltd. Graphic Composite Substrate Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Xuzhou Gapss Oe Technology Co., Ltd. Recent Developments/Updates
- 9.4.6 Xuzhou Gapss Oe Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Graphic Composite Substrate Industry Chain
- 10.2 Graphic Composite Substrate Upstream Analysis
 - 10.2.1 Graphic Composite Substrate Core Raw Materials
 - 10.2.2 Main Manufacturers of Graphic Composite Substrate Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Graphic Composite Substrate Production Mode
- 10.6 Graphic Composite Substrate Procurement Model
- 10.7 Graphic Composite Substrate Industry Sales Model and Sales Channels
 - 10.7.1 Graphic Composite Substrate Sales Model
 - 10.7.2 Graphic Composite Substrate Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

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

List Of Tables

LIST OF TABLES

Table 1. World Graphic Composite Substrate Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Graphic Composite Substrate Production Value by Region (2021-2026) & (USD Million)

Table 3. World Graphic Composite Substrate Production Value by Region (2027-2032) & (USD Million)

Table 4. World Graphic Composite Substrate Production Value Market Share by Region (2021-2026)

Table 5. World Graphic Composite Substrate Production Value Market Share by Region (2027-2032)

Table 6. World Graphic Composite Substrate Production by Region (2021-2026) & (K Pcs)

Table 7. World Graphic Composite Substrate Production by Region (2027-2032) & (K Pcs)

Table 8. World Graphic Composite Substrate Production Market Share by Region (2021-2026)

Table 9. World Graphic Composite Substrate Production Market Share by Region (2027-2032)

Table 10. World Graphic Composite Substrate Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World Graphic Composite Substrate Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. Graphic Composite Substrate Major Market Trends

Table 13. World Graphic Composite Substrate Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Graphic Composite Substrate Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Graphic Composite Substrate Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Graphic Composite Substrate Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Graphic Composite Substrate Producers in 2025

Table 18. World Graphic Composite Substrate Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Graphic Composite Substrate Producers in 2025

Table 20. World Graphic Composite Substrate Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 21. Global Graphic Composite Substrate Company Evaluation Quadrant

Table 22. World Graphic Composite Substrate Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Graphic Composite Substrate Production Site of Key Manufacturer

Table 24. Graphic Composite Substrate Market: Company Product Type Footprint

Table 25. Graphic Composite Substrate Market: Company Product Application Footprint

Table 26. Graphic Composite Substrate Competitive Factors

Table 27. Graphic Composite Substrate New Entrant and Capacity Expansion Plans

Table 28. Graphic Composite Substrate Mergers & Acquisitions Activity

Table 29. United States VS China Graphic Composite Substrate Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Graphic Composite Substrate Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Graphic Composite Substrate Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Graphic Composite Substrate Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Graphic Composite Substrate Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Graphic Composite Substrate Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Graphic Composite Substrate Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Graphic Composite Substrate Production Market Share (2021-2026)

Table 37. China Based Graphic Composite Substrate Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Graphic Composite Substrate Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Graphic Composite Substrate Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Graphic Composite Substrate Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Graphic Composite Substrate Production Market

Share (2021-2026)

Table 42. Rest of World Based Graphic Composite Substrate Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Graphic Composite Substrate Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Graphic Composite Substrate Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Graphic Composite Substrate Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Graphic Composite Substrate Production Market Share (2021-2026)

Table 47. World Graphic Composite Substrate Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Graphic Composite Substrate Production by Type (2021-2026) & (K Pcs)

Table 49. World Graphic Composite Substrate Production by Type (2027-2032) & (K Pcs)

Table 50. World Graphic Composite Substrate Production Value by Type (2021-2026) & (USD Million)

Table 51. World Graphic Composite Substrate Production Value by Type (2027-2032) & (USD Million)

Table 52. World Graphic Composite Substrate Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World Graphic Composite Substrate Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World Graphic Composite Substrate Production Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Table 55. World Graphic Composite Substrate Production by Wafer Size (2021-2026) & (K Pcs)

Table 56. World Graphic Composite Substrate Production by Wafer Size (2027-2032) & (K Pcs)

Table 57. World Graphic Composite Substrate Production Value by Wafer Size (2021-2026) & (USD Million)

Table 58. World Graphic Composite Substrate Production Value by Wafer Size (2027-2032) & (USD Million)

Table 59. World Graphic Composite Substrate Average Price by Wafer Size (2021-2026) & (US\$/Pcs)

Table 60. World Graphic Composite Substrate Average Price by Wafer Size (2027-2032) & (US\$/Pcs)

Table 61. World Graphic Composite Substrate Production Value by Composite Material Layer, (USD Million), 2021 & 2025 & 2032

Table 62. World Graphic Composite Substrate Production by Composite Material Layer (2021-2026) & (K Pcs)

Table 63. World Graphic Composite Substrate Production by Composite Material Layer (2027-2032) & (K Pcs)

Table 64. World Graphic Composite Substrate Production Value by Composite Material Layer (2021-2026) & (USD Million)

Table 65. World Graphic Composite Substrate Production Value by Composite Material Layer (2027-2032) & (USD Million)

Table 66. World Graphic Composite Substrate Average Price by Composite Material Layer (2021-2026) & (US\$/Pcs)

Table 67. World Graphic Composite Substrate Average Price by Composite Material Layer (2027-2032) & (US\$/Pcs)

Table 68. World Graphic Composite Substrate Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Graphic Composite Substrate Production by Application (2021-2026) & (K Pcs)

Table 70. World Graphic Composite Substrate Production by Application (2027-2032) & (K Pcs)

Table 71. World Graphic Composite Substrate Production Value by Application (2021-2026) & (USD Million)

Table 72. World Graphic Composite Substrate Production Value by Application (2027-2032) & (USD Million)

Table 73. World Graphic Composite Substrate Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World Graphic Composite Substrate Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. Sinopatt Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Sinopatt Technology Co., Ltd. Major Business

Table 77. Sinopatt Technology Co., Ltd. Graphic Composite Substrate Product and Services

Table 78. Sinopatt Technology Co., Ltd. Graphic Composite Substrate Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sinopatt Technology Co., Ltd. Recent Developments/Updates

Table 80. Sinopatt Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 81. Sanan Optoelectronics Co., Ltd. Basic Information, Manufacturing Base and

Competitors

Table 82. Sanan Optoelectronics Co., Ltd. Major Business

Table 83. Sanan Optoelectronics Co., Ltd. Graphic Composite Substrate Product and Services

Table 84. Sanan Optoelectronics Co., Ltd. Graphic Composite Substrate Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sanan Optoelectronics Co., Ltd. Recent Developments/Updates

Table 86. Sanan Optoelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Zhejiang Brolight Semiconductor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Zhejiang Brolight Semiconductor Technology Co., Ltd. Major Business

Table 89. Zhejiang Brolight Semiconductor Technology Co., Ltd. Graphic Composite Substrate Product and Services

Table 90. Zhejiang Brolight Semiconductor Technology Co., Ltd. Graphic Composite Substrate Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhejiang Brolight Semiconductor Technology Co., Ltd. Recent Developments/Updates

Table 92. Zhejiang Brolight Semiconductor Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Xuzhou Gapss Oe Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Xuzhou Gapss Oe Technology Co., Ltd. Major Business

Table 95. Xuzhou Gapss Oe Technology Co., Ltd. Graphic Composite Substrate Product and Services

Table 96. Xuzhou Gapss Oe Technology Co., Ltd. Graphic Composite Substrate Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Xuzhou Gapss Oe Technology Co., Ltd. Recent Developments/Updates

Table 98. Xuzhou Gapss Oe Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Global Key Players of Graphic Composite Substrate Upstream (Raw Materials)

Table 100. Global Graphic Composite Substrate Typical Customers

Table 101. Graphic Composite Substrate Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Graphic Composite Substrate Picture

Figure 2. World Graphic Composite Substrate Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Graphic Composite Substrate Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Graphic Composite Substrate Production (2021-2032) & (K Pcs)

Figure 5. World Graphic Composite Substrate Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World Graphic Composite Substrate Production Value Market Share by Region (2021-2032)

Figure 7. World Graphic Composite Substrate Production Market Share by Region (2021-2032)

Figure 8. China Graphic Composite Substrate Production (2021-2032) & (K Pcs)

Figure 9. Graphic Composite Substrate Market Drivers

Figure 10. Factors Affecting Demand

Figure 11. World Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 12. World Graphic Composite Substrate Consumption Market Share by Region (2021-2032)

Figure 13. United States Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 14. China Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 15. Europe Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 16. Japan Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 17. South Korea Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 18. ASEAN Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 19. India Graphic Composite Substrate Consumption (2021-2032) & (K Pcs)

Figure 20. Producer Shipments of Graphic Composite Substrate by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 21. Global Four-firm Concentration Ratios (CR4) for Graphic Composite Substrate Markets in 2025

Figure 22. Global Four-firm Concentration Ratios (CR8) for Graphic Composite Substrate Markets in 2025

Figure 23. United States VS China: Graphic Composite Substrate Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 24. United States VS China: Graphic Composite Substrate Production Market

Share Comparison (2021 & 2025 & 2032)

Figure 25. United States VS China: Graphic Composite Substrate Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States Based Manufacturers Graphic Composite Substrate Production Market Share 2025

Figure 27. China Based Manufacturers Graphic Composite Substrate Production Market Share 2025

Figure 28. Rest of World Based Manufacturers Graphic Composite Substrate Production Market Share 2025

Figure 29. World Graphic Composite Substrate Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Graphic Composite Substrate Production Value Market Share by Type in 2025

Figure 31. Standard MMS

Figure 32. Customized MMS

Figure 33. Other MMS

Figure 34. World Graphic Composite Substrate Production Market Share by Type (2021-2032)

Figure 35. World Graphic Composite Substrate Production Value Market Share by Type (2021-2032)

Figure 36. World Graphic Composite Substrate Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 37. World Graphic Composite Substrate Production Value by Wafer Size, (USD Million), 2021 & 2025 & 2032

Figure 38. World Graphic Composite Substrate Production Value Market Share by Wafer Size in 2025

Figure 39. 2-inch MMS

Figure 40. 4-inch MMS

Figure 41. 6-inch MMS

Figure 42. 8-inch and Above MMS

Figure 43. Custom-size MMS

Figure 44. World Graphic Composite Substrate Production Market Share by Wafer Size (2021-2032)

Figure 45. World Graphic Composite Substrate Production Value Market Share by Wafer Size (2021-2032)

Figure 46. World Graphic Composite Substrate Average Price by Wafer Size (2021-2032) & (US\$/Pcs)

Figure 47. World Graphic Composite Substrate Production Value by Composite Material Layer, (USD Million), 2021 & 2025 & 2032

Figure 48. World Graphic Composite Substrate Production Value Market Share by Composite Material Layer in 2025

Figure 49. SiO₂-based MMS

Figure 50. AlN-based MMS

Figure 51. SiC-based MMS

Figure 52. Multi-layer MMS

Figure 53. Other Material MMS

Figure 54. World Graphic Composite Substrate Production Market Share by Composite Material Layer (2021-2032)

Figure 55. World Graphic Composite Substrate Production Value Market Share by Composite Material Layer (2021-2032)

Figure 56. World Graphic Composite Substrate Average Price by Composite Material Layer (2021-2032) & (US\$/Pcs)

Figure 57. World Graphic Composite Substrate Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Graphic Composite Substrate Production Value Market Share by Application in 2025

Figure 59. Illumination

Figure 60. Electronic Engineering

Figure 61. Others

Figure 62. World Graphic Composite Substrate Production Market Share by Application (2021-2032)

Figure 63. World Graphic Composite Substrate Production Value Market Share by Application (2021-2032)

Figure 64. World Graphic Composite Substrate Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 65. Graphic Composite Substrate Industry Chain

Figure 66. Graphic Composite Substrate Procurement Model

Figure 67. Graphic Composite Substrate Sales Model

Figure 68. Graphic Composite Substrate Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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