

Global Thermally Conductive Via Filling Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GBA85FA06ACAEN.html>

Date: July 2026

Pages: 103

Price: US\$ 3,480.00 (Single User License)

ID: GBA85FA06ACAEN

Abstracts

According to our (Global Info Research) latest study, the global Thermally Conductive Via Filling Resin market size was valued at US\$ 94.66 million in 2025 and is forecast to a readjusted size of US\$ 167 million by 2032 with a CAGR of 8.4% during review period.

Thermally conductive via filling resin is a PCB via, blind via, and buried via filling material based on epoxy, acrylic, or other thermosetting resins and loaded with ceramic, copper, silver, or composite thermally conductive fillers. It is used to form dense, grindable, cappable, or electroplatable filling bodies inside vias, improving thermal conduction, surface flatness, assembly reliability, and, in some applications, electrical conductivity. The product's gross margin is approximately 38%.

Demand for thermally conductive via filling resin mainly comes from high-power-density PCBs, 5G communication boards, automotive power electronics, LED heat dissipation boards, and package substrates. As devices move toward higher frequency, higher power, and miniaturization, relying only on open vias for heat dissipation or ordinary resin via plugging makes it difficult to balance thermal management, flatness, and reliability. As a result, the use of thermally conductive via filling materials continues to increase in via-in-pad structures, thermal via arrays, and thick copper boards.

On the supply side, the market is still led by specialized PCB ink, conductive paste, and electronic chemical companies. Product differentiation is concentrated in thermal conductivity, CTE matching, void-free via filling, curing shrinkage, grindability, and compatibility with subsequent electroplating. Conductive copper/silver filling systems have high unit prices and narrow process windows, and are more often used in high-

heat-flux and high-reliability boards. Insulating thermally conductive systems have lower costs and are suitable for power boards with stronger electrical isolation requirements. Short-term growth is affected by the PCB cycle, but in the medium to long term, the market is driven by automotive electrification, AI server power supplies, high-speed communications, and advanced packaging, and is expected to maintain high-single-digit growth.

This report is a detailed and comprehensive analysis for global Thermally Conductive Via Filling Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermally Conductive Via Filling Resin market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Thermally Conductive Via Filling Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Thermally Conductive Via Filling Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Thermally Conductive Via Filling Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermally Conductive Via Filling Resin

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermally Conductive Via Filling Resin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Baroy New Materials, Taiyo America, Tatsuta Electric Wire & Cable, Electra Polymers, Transene, Peters, San-Ei Kagaku, Micromax, etc.

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

Market Segmentation

Thermally Conductive Via Filling Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Electrically Insulating Thermal Resin

Conductive Copper-Filled Resin

Conductive Silver-Filled Resin

Hybrid Metal-Filled Resin

Other

Market segment by Thermal Conductivity

Low Conductivity (10 W/m²K)

Other

Market segment by Curing System

One-Component Thermal Cure

Two-Component Thermal Cure

Photoimageable Cure

Low-Temperature Sintering

Other

Market segment by Via Filling Process

Vacuum Via Filling

Screen Printing Filling

Stencil Printing Filling

Plated Cap Filling

Other

Market segment by Application

High-Power PCB Fabrication

5G Communication Board Fabrication

Automotive Power Electronics PCB

Semiconductor Package Substrate

LED and Lighting PCB

Aerospace and High-Reliability PCB

Industrial Control PCB

Major players covered

Baroy New Materials

Taiyo America

Tatsuta Electric Wire & Cable

Electra Polymers

Transene

Peters

San-Ei Kagaku

Micromax

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermally Conductive Via Filling Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermally Conductive Via Filling Resin, with price, sales quantity, revenue, and global market share of Thermally Conductive Via Filling Resin from 2021 to 2026.

Chapter 3, the Thermally Conductive Via Filling Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermally Conductive Via Filling Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermally Conductive Via Filling Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermally Conductive Via Filling Resin.

Chapter 14 and 15, to describe Thermally Conductive Via Filling Resin sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Thermally Conductive Via Filling Resin Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Electrically Insulating Thermal Resin

1.3.3 Conductive Copper-Filled Resin

1.3.4 Conductive Silver-Filled Resin

1.3.5 Hybrid Metal-Filled Resin

1.3.6 Other

1.4 Market Analysis by Thermal Conductivity

1.4.1 Overview: Global Thermally Conductive Via Filling Resin Consumption Value by Thermal Conductivity: 2021 Versus 2025 Versus 2032

1.4.2 Low Conductivity (10 W/m²K)

1.4.6 Other

1.5 Market Analysis by Curing System

1.5.1 Overview: Global Thermally Conductive Via Filling Resin Consumption Value by Curing System: 2021 Versus 2025 Versus 2032

1.5.2 One-Component Thermal Cure

1.5.3 Two-Component Thermal Cure

1.5.4 Photoimageable Cure

1.5.5 Low-Temperature Sintering

1.5.6 Other

1.6 Market Analysis by Via Filling Process

1.6.1 Overview: Global Thermally Conductive Via Filling Resin Consumption Value by Via Filling Process: 2021 Versus 2025 Versus 2032

1.6.2 Vacuum Via Filling

1.6.3 Screen Printing Filling

1.6.4 Stencil Printing Filling

1.6.5 Plated Cap Filling

1.6.6 Other

1.7 Market Analysis by Application

1.7.1 Overview: Global Thermally Conductive Via Filling Resin Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 High-Power PCB Fabrication

- 1.7.3 5G Communication Board Fabrication
- 1.7.4 Automotive Power Electronics PCB
- 1.7.5 Semiconductor Package Substrate
- 1.7.6 LED and Lighting PCB
- 1.7.7 Aerospace and High-Reliability PCB
- 1.7.8 Industrial Control PCB
- 1.8 Global Thermally Conductive Via Filling Resin Market Size & Forecast
 - 1.8.1 Global Thermally Conductive Via Filling Resin Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Thermally Conductive Via Filling Resin Sales Quantity (2021-2032)
 - 1.8.3 Global Thermally Conductive Via Filling Resin Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Baroy New Materials

- 2.1.1 Baroy New Materials Details
- 2.1.2 Baroy New Materials Major Business
- 2.1.3 Baroy New Materials Thermally Conductive Via Filling Resin Product and Services
- 2.1.4 Baroy New Materials Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Baroy New Materials Recent Developments/Updates

2.2 Taiyo America

- 2.2.1 Taiyo America Details
- 2.2.2 Taiyo America Major Business
- 2.2.3 Taiyo America Thermally Conductive Via Filling Resin Product and Services
- 2.2.4 Taiyo America Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Taiyo America Recent Developments/Updates

2.3 Tatsuta Electric Wire & Cable

- 2.3.1 Tatsuta Electric Wire & Cable Details
- 2.3.2 Tatsuta Electric Wire & Cable Major Business
- 2.3.3 Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Product and Services
- 2.3.4 Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Tatsuta Electric Wire & Cable Recent Developments/Updates

2.4 Electra Polymers

- 2.4.1 Electra Polymers Details

- 2.4.2 Electra Polymers Major Business
- 2.4.3 Electra Polymers Thermally Conductive Via Filling Resin Product and Services
- 2.4.4 Electra Polymers Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.4.5 Electra Polymers Recent Developments/Updates
- 2.5 Transene
 - 2.5.1 Transene Details
 - 2.5.2 Transene Major Business
 - 2.5.3 Transene Thermally Conductive Via Filling Resin Product and Services
 - 2.5.4 Transene Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Transene Recent Developments/Updates
- 2.6 Peters
 - 2.6.1 Peters Details
 - 2.6.2 Peters Major Business
 - 2.6.3 Peters Thermally Conductive Via Filling Resin Product and Services
 - 2.6.4 Peters Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Peters Recent Developments/Updates
- 2.7 San-Ei Kagaku
 - 2.7.1 San-Ei Kagaku Details
 - 2.7.2 San-Ei Kagaku Major Business
 - 2.7.3 San-Ei Kagaku Thermally Conductive Via Filling Resin Product and Services
 - 2.7.4 San-Ei Kagaku Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 San-Ei Kagaku Recent Developments/Updates
- 2.8 Micromax
 - 2.8.1 Micromax Details
 - 2.8.2 Micromax Major Business
 - 2.8.3 Micromax Thermally Conductive Via Filling Resin Product and Services
 - 2.8.4 Micromax Thermally Conductive Via Filling Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Micromax Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THERMALLY CONDUCTIVE VIA FILLING RESIN BY MANUFACTURER

- 3.1 Global Thermally Conductive Via Filling Resin Sales Quantity by Manufacturer (2021-2026)

- 3.2 Global Thermally Conductive Via Filling Resin Revenue by Manufacturer (2021-2026)
- 3.3 Global Thermally Conductive Via Filling Resin Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Thermally Conductive Via Filling Resin by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Thermally Conductive Via Filling Resin Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Thermally Conductive Via Filling Resin Manufacturer Market Share in 2025
- 3.5 Thermally Conductive Via Filling Resin Market: Overall Company Footprint Analysis
 - 3.5.1 Thermally Conductive Via Filling Resin Market: Region Footprint
 - 3.5.2 Thermally Conductive Via Filling Resin Market: Company Product Type Footprint
 - 3.5.3 Thermally Conductive Via Filling Resin Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Thermally Conductive Via Filling Resin Market Size by Region
 - 4.1.1 Global Thermally Conductive Via Filling Resin Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Thermally Conductive Via Filling Resin Consumption Value by Region (2021-2032)
 - 4.1.3 Global Thermally Conductive Via Filling Resin Average Price by Region (2021-2032)
- 4.2 North America Thermally Conductive Via Filling Resin Consumption Value (2021-2032)
- 4.3 Europe Thermally Conductive Via Filling Resin Consumption Value (2021-2032)
- 4.4 Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value (2021-2032)
- 4.5 South America Thermally Conductive Via Filling Resin Consumption Value (2021-2032)
- 4.6 Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2032)

5.2 Global Thermally Conductive Via Filling Resin Consumption Value by Type
(2021-2032)

5.3 Global Thermally Conductive Via Filling Resin Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Thermally Conductive Via Filling Resin Sales Quantity by Application
(2021-2032)

6.2 Global Thermally Conductive Via Filling Resin Consumption Value by Application
(2021-2032)

6.3 Global Thermally Conductive Via Filling Resin Average Price by Application
(2021-2032)

7 NORTH AMERICA

7.1 North America Thermally Conductive Via Filling Resin Sales Quantity by Type
(2021-2032)

7.2 North America Thermally Conductive Via Filling Resin Sales Quantity by Application
(2021-2032)

7.3 North America Thermally Conductive Via Filling Resin Market Size by Country

7.3.1 North America Thermally Conductive Via Filling Resin Sales Quantity by Country
(2021-2032)

7.3.2 North America Thermally Conductive Via Filling Resin Consumption Value by
Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2032)

8.2 Europe Thermally Conductive Via Filling Resin Sales Quantity by Application
(2021-2032)

8.3 Europe Thermally Conductive Via Filling Resin Market Size by Country

8.3.1 Europe Thermally Conductive Via Filling Resin Sales Quantity by Country
(2021-2032)

8.3.2 Europe Thermally Conductive Via Filling Resin Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Type
(2021-2032)

9.2 Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Thermally Conductive Via Filling Resin Market Size by Region

9.3.1 Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value by
Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Thermally Conductive Via Filling Resin Sales Quantity by Type
(2021-2032)

10.2 South America Thermally Conductive Via Filling Resin Sales Quantity by
Application (2021-2032)

10.3 South America Thermally Conductive Via Filling Resin Market Size by Country

10.3.1 South America Thermally Conductive Via Filling Resin Sales Quantity by
Country (2021-2032)

10.3.2 South America Thermally Conductive Via Filling Resin Consumption Value by
Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Thermally Conductive Via Filling Resin Market Size by Country

11.3.1 Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Thermally Conductive Via Filling Resin Market Drivers

12.2 Thermally Conductive Via Filling Resin Market Restraints

12.3 Thermally Conductive Via Filling Resin Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Thermally Conductive Via Filling Resin and Key Manufacturers

13.2 Manufacturing Costs Percentage of Thermally Conductive Via Filling Resin

13.3 Thermally Conductive Via Filling Resin Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Thermally Conductive Via Filling Resin Typical Distributors

14.3 Thermally Conductive Via Filling Resin Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Thermally Conductive Via Filling Resin Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Thermally Conductive Via Filling Resin Consumption Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Thermally Conductive Via Filling Resin Consumption Value by Curing System, (USD Million), 2021 & 2025 & 2032

Table 4. Global Thermally Conductive Via Filling Resin Consumption Value by Via Filling Process, (USD Million), 2021 & 2025 & 2032

Table 5. Global Thermally Conductive Via Filling Resin Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Baroy New Materials Basic Information, Manufacturing Base and Competitors

Table 7. Baroy New Materials Major Business

Table 8. Baroy New Materials Thermally Conductive Via Filling Resin Product and Services

Table 9. Baroy New Materials Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Baroy New Materials Recent Developments/Updates

Table 11. Taiyo America Basic Information, Manufacturing Base and Competitors

Table 12. Taiyo America Major Business

Table 13. Taiyo America Thermally Conductive Via Filling Resin Product and Services

Table 14. Taiyo America Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Taiyo America Recent Developments/Updates

Table 16. Tatsuta Electric Wire & Cable Basic Information, Manufacturing Base and Competitors

Table 17. Tatsuta Electric Wire & Cable Major Business

Table 18. Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Product and Services

Table 19. Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Tatsuta Electric Wire & Cable Recent Developments/Updates

Table 21. Electra Polymers Basic Information, Manufacturing Base and Competitors

Table 22. Electra Polymers Major Business

Table 23. Electra Polymers Thermally Conductive Via Filling Resin Product and Services

Table 24. Electra Polymers Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Electra Polymers Recent Developments/Updates

Table 26. Transene Basic Information, Manufacturing Base and Competitors

Table 27. Transene Major Business

Table 28. Transene Thermally Conductive Via Filling Resin Product and Services

Table 29. Transene Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Transene Recent Developments/Updates

Table 31. Peters Basic Information, Manufacturing Base and Competitors

Table 32. Peters Major Business

Table 33. Peters Thermally Conductive Via Filling Resin Product and Services

Table 34. Peters Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Peters Recent Developments/Updates

Table 36. San-Ei Kagaku Basic Information, Manufacturing Base and Competitors

Table 37. San-Ei Kagaku Major Business

Table 38. San-Ei Kagaku Thermally Conductive Via Filling Resin Product and Services

Table 39. San-Ei Kagaku Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. San-Ei Kagaku Recent Developments/Updates

Table 41. Micromax Basic Information, Manufacturing Base and Competitors

Table 42. Micromax Major Business

Table 43. Micromax Thermally Conductive Via Filling Resin Product and Services

Table 44. Micromax Thermally Conductive Via Filling Resin Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Micromax Recent Developments/Updates

Table 46. Global Thermally Conductive Via Filling Resin Sales Quantity by Manufacturer (2021-2026) & (kg)

Table 47. Global Thermally Conductive Via Filling Resin Revenue by Manufacturer (2021-2026) & (USD Million)

Table 48. Global Thermally Conductive Via Filling Resin Average Price by Manufacturer

(2021-2026) & (US\$/kg)

Table 49. Market Position of Manufacturers in Thermally Conductive Via Filling Resin, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 50. Head Office and Thermally Conductive Via Filling Resin Production Site of Key Manufacturer

Table 51. Thermally Conductive Via Filling Resin Market: Company Product Type Footprint

Table 52. Thermally Conductive Via Filling Resin Market: Company Product Application Footprint

Table 53. Thermally Conductive Via Filling Resin New Market Entrants and Barriers to Market Entry

Table 54. Thermally Conductive Via Filling Resin Mergers, Acquisition, Agreements, and Collaborations

Table 55. Global Thermally Conductive Via Filling Resin Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 56. Global Thermally Conductive Via Filling Resin Sales Quantity by Region (2021-2026) & (kg)

Table 57. Global Thermally Conductive Via Filling Resin Sales Quantity by Region (2027-2032) & (kg)

Table 58. Global Thermally Conductive Via Filling Resin Consumption Value by Region (2021-2026) & (USD Million)

Table 59. Global Thermally Conductive Via Filling Resin Consumption Value by Region (2027-2032) & (USD Million)

Table 60. Global Thermally Conductive Via Filling Resin Average Price by Region (2021-2026) & (US\$/kg)

Table 61. Global Thermally Conductive Via Filling Resin Average Price by Region (2027-2032) & (US\$/kg)

Table 62. Global Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 63. Global Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 64. Global Thermally Conductive Via Filling Resin Consumption Value by Type (2021-2026) & (USD Million)

Table 65. Global Thermally Conductive Via Filling Resin Consumption Value by Type (2027-2032) & (USD Million)

Table 66. Global Thermally Conductive Via Filling Resin Average Price by Type (2021-2026) & (US\$/kg)

Table 67. Global Thermally Conductive Via Filling Resin Average Price by Type (2027-2032) & (US\$/kg)

Table 68. Global Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 69. Global Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 70. Global Thermally Conductive Via Filling Resin Consumption Value by Application (2021-2026) & (USD Million)

Table 71. Global Thermally Conductive Via Filling Resin Consumption Value by Application (2027-2032) & (USD Million)

Table 72. Global Thermally Conductive Via Filling Resin Average Price by Application (2021-2026) & (US\$/kg)

Table 73. Global Thermally Conductive Via Filling Resin Average Price by Application (2027-2032) & (US\$/kg)

Table 74. North America Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 75. North America Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 76. North America Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 77. North America Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 78. North America Thermally Conductive Via Filling Resin Sales Quantity by Country (2021-2026) & (kg)

Table 79. North America Thermally Conductive Via Filling Resin Sales Quantity by Country (2027-2032) & (kg)

Table 80. North America Thermally Conductive Via Filling Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 81. North America Thermally Conductive Via Filling Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 82. Europe Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 83. Europe Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 84. Europe Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 85. Europe Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 86. Europe Thermally Conductive Via Filling Resin Sales Quantity by Country (2021-2026) & (kg)

Table 87. Europe Thermally Conductive Via Filling Resin Sales Quantity by Country

(2027-2032) & (kg)

Table 88. Europe Thermally Conductive Via Filling Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 89. Europe Thermally Conductive Via Filling Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 90. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 91. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 92. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 93. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 94. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Region (2021-2026) & (kg)

Table 95. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity by Region (2027-2032) & (kg)

Table 96. Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value by Region (2021-2026) & (USD Million)

Table 97. Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value by Region (2027-2032) & (USD Million)

Table 98. South America Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 99. South America Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 100. South America Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 101. South America Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 102. South America Thermally Conductive Via Filling Resin Sales Quantity by Country (2021-2026) & (kg)

Table 103. South America Thermally Conductive Via Filling Resin Sales Quantity by Country (2027-2032) & (kg)

Table 104. South America Thermally Conductive Via Filling Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 105. South America Thermally Conductive Via Filling Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Type (2021-2026) & (kg)

Table 107. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Type (2027-2032) & (kg)

Table 108. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Application (2021-2026) & (kg)

Table 109. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Application (2027-2032) & (kg)

Table 110. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Country (2021-2026) & (kg)

Table 111. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity by Country (2027-2032) & (kg)

Table 112. Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Thermally Conductive Via Filling Resin Raw Material

Table 115. Key Manufacturers of Thermally Conductive Via Filling Resin Raw Materials

Table 116. Thermally Conductive Via Filling Resin Typical Distributors

Table 117. Thermally Conductive Via Filling Resin Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Thermally Conductive Via Filling Resin Picture
- Figure 2. Global Thermally Conductive Via Filling Resin Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Thermally Conductive Via Filling Resin Revenue Market Share by Type in 2025
- Figure 4. Electrically Insulating Thermal Resin Examples
- Figure 5. Conductive Copper-Filled Resin Examples
- Figure 6. Conductive Silver-Filled Resin Examples
- Figure 7. Hybrid Metal-Filled Resin Examples
- Figure 8. Other Examples
- Figure 9. Global Thermally Conductive Via Filling Resin Revenue by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032
- Figure 10. Global Thermally Conductive Via Filling Resin Revenue Market Share by Thermal Conductivity in 2025
- Figure 11. Low Conductivity (10 W/m²K) Examples
- Figure 15. Other Examples
- Figure 16. Global Thermally Conductive Via Filling Resin Revenue by Curing System, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Thermally Conductive Via Filling Resin Revenue Market Share by Curing System in 2025
- Figure 18. One-Component Thermal Cure Examples
- Figure 19. Two-Component Thermal Cure Examples
- Figure 20. Photoimageable Cure Examples
- Figure 21. Low-Temperature Sintering Examples
- Figure 22. Other Examples
- Figure 23. Global Thermally Conductive Via Filling Resin Revenue by Via Filling Process, (USD Million), 2021 & 2025 & 2032
- Figure 24. Global Thermally Conductive Via Filling Resin Revenue Market Share by Via Filling Process in 2025
- Figure 25. Vacuum Via Filling Examples
- Figure 26. Screen Printing Filling Examples
- Figure 27. Stencil Printing Filling Examples
- Figure 28. Plated Cap Filling Examples
- Figure 29. Other Examples
- Figure 30. Global Thermally Conductive Via Filling Resin Consumption Value by

Application, (USD Million), 2021 & 2025 & 2032

Figure 31. Global Thermally Conductive Via Filling Resin Revenue Market Share by Application in 2025

Figure 32. High-Power PCB Fabrication Examples

Figure 33. 5G Communication Board Fabrication Examples

Figure 34. Automotive Power Electronics PCB Examples

Figure 35. Semiconductor Package Substrate Examples

Figure 36. LED and Lighting PCB Examples

Figure 37. Aerospace and High-Reliability PCB Examples

Figure 38. Industrial Control PCB Examples

Figure 39. Global Thermally Conductive Via Filling Resin Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 40. Global Thermally Conductive Via Filling Resin Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 41. Global Thermally Conductive Via Filling Resin Sales Quantity (2021-2032) & (kg)

Figure 42. Global Thermally Conductive Via Filling Resin Price (2021-2032) & (US\$/kg)

Figure 43. Global Thermally Conductive Via Filling Resin Sales Quantity Market Share by Manufacturer in 2025

Figure 44. Global Thermally Conductive Via Filling Resin Revenue Market Share by Manufacturer in 2025

Figure 45. Producer Shipments of Thermally Conductive Via Filling Resin by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 46. Top 3 Thermally Conductive Via Filling Resin Manufacturer (Revenue) Market Share in 2025

Figure 47. Top 6 Thermally Conductive Via Filling Resin Manufacturer (Revenue) Market Share in 2025

Figure 48. Global Thermally Conductive Via Filling Resin Sales Quantity Market Share by Region (2021-2032)

Figure 49. Global Thermally Conductive Via Filling Resin Consumption Value Market Share by Region (2021-2032)

Figure 50. North America Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 52. Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 53. South America Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 54. Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 55. Global Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 56. Global Thermally Conductive Via Filling Resin Consumption Value Market Share by Type (2021-2032)

Figure 57. Global Thermally Conductive Via Filling Resin Average Price by Type (2021-2032) & (US\$/kg)

Figure 58. Global Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 59. Global Thermally Conductive Via Filling Resin Revenue Market Share by Application (2021-2032)

Figure 60. Global Thermally Conductive Via Filling Resin Average Price by Application (2021-2032) & (US\$/kg)

Figure 61. North America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 62. North America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 63. North America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Country (2021-2032)

Figure 64. North America Thermally Conductive Via Filling Resin Consumption Value Market Share by Country (2021-2032)

Figure 65. United States Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 66. Canada Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 67. Mexico Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 68. Europe Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 69. Europe Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 70. Europe Thermally Conductive Via Filling Resin Sales Quantity Market Share by Country (2021-2032)

Figure 71. Europe Thermally Conductive Via Filling Resin Consumption Value Market Share by Country (2021-2032)

Figure 72. Germany Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 73. France Thermally Conductive Via Filling Resin Consumption Value

(2021-2032) & (USD Million)

Figure 74. United Kingdom Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 75. Russia Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 76. Italy Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 77. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 78. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 79. Asia-Pacific Thermally Conductive Via Filling Resin Sales Quantity Market Share by Region (2021-2032)

Figure 80. Asia-Pacific Thermally Conductive Via Filling Resin Consumption Value Market Share by Region (2021-2032)

Figure 81. China Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 82. Japan Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 83. South Korea Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 84. India Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 85. Southeast Asia Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 86. Australia Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 87. South America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 88. South America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 89. South America Thermally Conductive Via Filling Resin Sales Quantity Market Share by Country (2021-2032)

Figure 90. South America Thermally Conductive Via Filling Resin Consumption Value Market Share by Country (2021-2032)

Figure 91. Brazil Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 92. Argentina Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 93. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity Market Share by Type (2021-2032)

Figure 94. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity Market Share by Application (2021-2032)

Figure 95. Middle East & Africa Thermally Conductive Via Filling Resin Sales Quantity Market Share by Country (2021-2032)

Figure 96. Middle East & Africa Thermally Conductive Via Filling Resin Consumption Value Market Share by Country (2021-2032)

Figure 97. Turkey Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 98. Egypt Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 99. Saudi Arabia Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 100. South Africa Thermally Conductive Via Filling Resin Consumption Value (2021-2032) & (USD Million)

Figure 101. Thermally Conductive Via Filling Resin Market Drivers

Figure 102. Thermally Conductive Via Filling Resin Market Restraints

Figure 103. Thermally Conductive Via Filling Resin Market Trends

Figure 104. Porters Five Forces Analysis

Figure 105. Manufacturing Cost Structure Analysis of Thermally Conductive Via Filling Resin in 2025

Figure 106. Manufacturing Process Analysis of Thermally Conductive Via Filling Resin

Figure 107. Thermally Conductive Via Filling Resin Industrial Chain

Figure 108. Sales Channel: Direct to End-User vs Distributors

Figure 109. Direct Channel Pros & Cons

Figure 110. Indirect Channel Pros & Cons

Figure 111. Methodology

Figure 112. Research Process and Data Source

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