

Global Thermally Conductive Phase Change Materials Market Growth 2026-2032

<https://marketpublishers.com/r/GCA7DC7C1A55EN.html>

Date: July 2026

Pages: 91

Price: US\$ 3,660.00 (Single User License)

ID: GCA7DC7C1A55EN

Abstracts

The global Thermally Conductive Phase Change Materials market size is predicted to grow from US\$ 1842 million in 2025 to US\$ 2882 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

Thermally Conductive Phase Change Materials (PCMs) are thermal interface materials manufactured by incorporating thermally conductive fillers such as aluminum oxide, boron nitride, and graphite into polymer, wax-based, or non-silicone resin matrices. Common product forms include sheets, films, pastes, and printable coating materials. These materials remain solid or semi-solid at room temperature but soften when reaching a phase transition temperature typically between 40°C and 80°C, allowing them to wet and fill microscopic gaps between chips, power devices, and heat sinks. This mechanism reduces interfacial thermal resistance while minimizing pump-out and dry-out risks. Thermally conductive PCMs are widely used in CPU/GPU cooling, servers, communication equipment, automotive electronics, and power modules. The overall gross margin is approximately 48%.

Demand for thermally conductive phase change materials is primarily driven by increasing power density and higher thermal interface stability requirements in electronic devices. Servers, automotive electronics, communication equipment, consumer electronics, and power modules continue to evolve toward higher power levels, greater miniaturization, and increased integration. As a result, lower thermal resistance and more reliable interface materials are required between chips, heat sinks, vapor chambers, and metal housings, accelerating the adoption of phase change sheets, phase change films, and pre-applied phase change materials.

Compared with thermal grease, thermally conductive phase change materials soften

under operating temperatures and effectively fill interfacial gaps, while maintaining a relatively stable form after cooling. This helps reduce pump-out, dry-out, and coating non-uniformity issues, making them particularly suitable for high-volume assembly and long-term operation. Thermal management upgrades in AI servers, electric vehicle powertrains, automotive controllers, RF devices in communication base stations, and premium electronic devices are expected to continue driving demand for products with higher thermal conductivity, lower volatility, reduced oil bleed, and superior thermal cycling resistance.

Industry competition is determined not only by thermal conductivity performance but also by phase transition temperature control, thickness tolerance, interfacial wettability, electrical insulation reliability, and customer qualification capabilities. International suppliers maintain strong first-mover advantages in high-end electronics and automotive applications. However, domestic manufacturers still have significant opportunities for import substitution and expansion into mid- to high-end markets if they can improve formulation stability, precision coating technologies, die-cutting capabilities, and successfully enter the qualification systems of major customers.

LP Information, Inc. (LPI) ' newest research report, the "Thermally Conductive Phase Change Materials Industry Forecast" looks at past sales and reviews total world Thermally Conductive Phase Change Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermally Conductive Phase Change Materials sales for 2026 through 2032. With Thermally Conductive Phase Change Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermally Conductive Phase Change Materials industry.

This Insight Report provides a comprehensive analysis of the global Thermally Conductive Phase Change Materials 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 Thermally Conductive Phase Change Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermally Conductive Phase Change Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermally Conductive Phase Change Materials 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 Thermally Conductive Phase Change Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermally Conductive Phase Change Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Phase Change Pads and Films

Phase Change Rolls and Sheets

Phase Change Pastes and Compounds

Pre-Applied Phase Change Materials

Die-Cut Phase Change Parts

Segmentation by Thermal Conductivity:

Below 3 W/m²K

3 to 6 W/m²K

6 to 10 W/m²K

Above 10 W/m²K

Segmentation by Phase Change Temperature:

Below 45°C

45 to 55°C

55 to 65°C

Above 65°C

Segmentation by Matrix Chemistry:

Silicone-Based

Silicone-Free Polymer

Wax-Based Composite

Graphite or Carbon Hybrid

Other Matrix

Segmentation by Application:

Computing and Data Centers

Consumer Electronics

Telecom and Networking

Automotive Electronics

Power Electronics and Industrial

Medical and Aerospace

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.

Henkel

Honeywell

Parker Hannifin

Laird

Momentive

3M

Wakefield Thermal

AI Technology

Shanghai Allied

Suzhou Techinno

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermally Conductive Phase Change Materials market?

What factors are driving Thermally Conductive Phase Change Materials market growth, globally and by region?

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

How do Thermally Conductive Phase Change Materials market opportunities vary by end market size?

How does Thermally Conductive Phase Change Materials 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 Thermally Conductive Phase Change Materials Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Thermally Conductive Phase Change Materials by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Thermally Conductive Phase Change Materials by Country/Region, 2021, 2025 & 2032
- 2.2 Thermally Conductive Phase Change Materials Segment by Type
 - 2.2.1 Phase Change Pads and Films
 - 2.2.2 Phase Change Rolls and Sheets
 - 2.2.3 Phase Change Pastes and Compounds
 - 2.2.4 Pre-Applied Phase Change Materials
 - 2.2.5 Die-Cut Phase Change Parts
 - 2.2.6 Thermally Conductive Phase Change Materials Sales by Type
 - 2.2.6.1 Global Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Thermally Conductive Phase Change Materials Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Thermally Conductive Phase Change Materials Sale Price by Type (2021-2026)
- 2.3 Thermally Conductive Phase Change Materials Segment by Thermal Conductivity
 - 2.3.1 Below 3 W/m²K
 - 2.3.2 3 to 6 W/m²K
 - 2.3.3 6 to 10 W/m²K
 - 2.3.4 Above 10 W/m²K

- 2.3.5 Thermally Conductive Phase Change Materials Sales by Thermal Conductivity
 - 2.3.5.1 Global Thermally Conductive Phase Change Materials Sales Market Share by Thermal Conductivity (2021-2026)
 - 2.3.5.2 Global Thermally Conductive Phase Change Materials Revenue and Market Share by Thermal Conductivity (2021-2026)
 - 2.3.5.3 Global Thermally Conductive Phase Change Materials Sale Price by Thermal Conductivity (2021-2026)
- 2.4 Thermally Conductive Phase Change Materials Segment by Phase Change Temperature
 - 2.4.1 Below 45°C
 - 2.4.2 45 to 55°C
 - 2.4.3 55 to 65°C
 - 2.4.4 Above 65°C
 - 2.4.5 Thermally Conductive Phase Change Materials Sales by Phase Change Temperature
 - 2.4.5.1 Global Thermally Conductive Phase Change Materials Sales Market Share by Phase Change Temperature (2021-2026)
 - 2.4.5.2 Global Thermally Conductive Phase Change Materials Revenue and Market Share by Phase Change Temperature (2021-2026)
 - 2.4.5.3 Global Thermally Conductive Phase Change Materials Sale Price by Phase Change Temperature (2021-2026)
- 2.5 Thermally Conductive Phase Change Materials Segment by Matrix Chemistry
 - 2.5.1 Silicone-Based
 - 2.5.2 Silicone-Free Polymer
 - 2.5.3 Wax-Based Composite
 - 2.5.4 Graphite or Carbon Hybrid
 - 2.5.5 Other Matrix
 - 2.5.6 Thermally Conductive Phase Change Materials Sales by Matrix Chemistry
 - 2.5.6.1 Global Thermally Conductive Phase Change Materials Sales Market Share by Matrix Chemistry (2021-2026)
 - 2.5.6.2 Global Thermally Conductive Phase Change Materials Revenue and Market Share by Matrix Chemistry (2021-2026)
 - 2.5.6.3 Global Thermally Conductive Phase Change Materials Sale Price by Matrix Chemistry (2021-2026)
- 2.6 Thermally Conductive Phase Change Materials Segment by Application
 - 2.6.1 Computing and Data Centers
 - 2.6.2 Consumer Electronics
 - 2.6.3 Telecom and Networking
 - 2.6.4 Automotive Electronics

2.6.5 Power Electronics and Industrial

2.6.6 Medical and Aerospace

2.6.7 Thermally Conductive Phase Change Materials Sales by Application

2.6.7.1 Global Thermally Conductive Phase Change Materials Sale Market Share by Application (2021-2026)

2.6.7.2 Global Thermally Conductive Phase Change Materials Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Thermally Conductive Phase Change Materials Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Thermally Conductive Phase Change Materials Breakdown Data by Company

3.1.1 Global Thermally Conductive Phase Change Materials Annual Sales by Company (2021-2026)

3.1.2 Global Thermally Conductive Phase Change Materials Sales Market Share by Company (2021-2026)

3.2 Global Thermally Conductive Phase Change Materials Annual Revenue by Company (2021-2026)

3.2.1 Global Thermally Conductive Phase Change Materials Revenue by Company (2021-2026)

3.2.2 Global Thermally Conductive Phase Change Materials Revenue Market Share by Company (2021-2026)

3.3 Global Thermally Conductive Phase Change Materials Sale Price by Company

3.4 Key Manufacturers Thermally Conductive Phase Change Materials Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Thermally Conductive Phase Change Materials Product Location Distribution

3.4.2 Players Thermally Conductive Phase Change Materials Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR THERMALLY CONDUCTIVE PHASE CHANGE MATERIALS BY GEOGRAPHIC REGION

4.1 World Historic Thermally Conductive Phase Change Materials Market Size by Geographic Region (2021-2026)

4.1.1 Global Thermally Conductive Phase Change Materials Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Thermally Conductive Phase Change Materials Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Thermally Conductive Phase Change Materials Market Size by Country/Region (2021-2026)

4.2.1 Global Thermally Conductive Phase Change Materials Annual Sales by Country/Region (2021-2026)

4.2.2 Global Thermally Conductive Phase Change Materials Annual Revenue by Country/Region (2021-2026)

4.3 Americas Thermally Conductive Phase Change Materials Sales Growth

4.4 APAC Thermally Conductive Phase Change Materials Sales Growth

4.5 Europe Thermally Conductive Phase Change Materials Sales Growth

4.6 Middle East & Africa Thermally Conductive Phase Change Materials Sales Growth

5 AMERICAS

5.1 Americas Thermally Conductive Phase Change Materials Sales by Country

5.1.1 Americas Thermally Conductive Phase Change Materials Sales by Country (2021-2026)

5.1.2 Americas Thermally Conductive Phase Change Materials Revenue by Country (2021-2026)

5.2 Americas Thermally Conductive Phase Change Materials Sales by Type (2021-2026)

5.3 Americas Thermally Conductive Phase Change Materials Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Thermally Conductive Phase Change Materials Sales by Region

6.1.1 APAC Thermally Conductive Phase Change Materials Sales by Region (2021-2026)

6.1.2 APAC Thermally Conductive Phase Change Materials Revenue by Region

(2021-2026)

6.2 APAC Thermally Conductive Phase Change Materials Sales by Type (2021-2026)

6.3 APAC Thermally Conductive Phase Change Materials Sales by Application
(2021-2026)

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 Thermally Conductive Phase Change Materials by Country

7.1.1 Europe Thermally Conductive Phase Change Materials Sales by Country
(2021-2026)

7.1.2 Europe Thermally Conductive Phase Change Materials Revenue by Country
(2021-2026)

7.2 Europe Thermally Conductive Phase Change Materials Sales by Type (2021-2026)

7.3 Europe Thermally Conductive Phase Change Materials Sales by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Thermally Conductive Phase Change Materials by Country

8.1.1 Middle East & Africa Thermally Conductive Phase Change Materials Sales by
Country (2021-2026)

8.1.2 Middle East & Africa Thermally Conductive Phase Change Materials Revenue by
Country (2021-2026)

8.2 Middle East & Africa Thermally Conductive Phase Change Materials Sales by Type
(2021-2026)

8.3 Middle East & Africa Thermally Conductive Phase Change Materials Sales by
Application (2021-2026)

- 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 Thermally Conductive Phase Change Materials
- 10.3 Manufacturing Process Analysis of Thermally Conductive Phase Change Materials
- 10.4 Industry Chain Structure of Thermally Conductive Phase Change Materials

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Thermally Conductive Phase Change Materials Distributors
- 11.3 Thermally Conductive Phase Change Materials Customer

12 WORLD FORECAST REVIEW FOR THERMALLY CONDUCTIVE PHASE CHANGE MATERIALS BY GEOGRAPHIC REGION

- 12.1 Global Thermally Conductive Phase Change Materials Market Size Forecast by Region
 - 12.1.1 Global Thermally Conductive Phase Change Materials Forecast by Region (2027-2032)
 - 12.1.2 Global Thermally Conductive Phase Change Materials Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Thermally Conductive Phase Change Materials Forecast by Type
(2027-2032)

12.7 Global Thermally Conductive Phase Change Materials Forecast by Application
(2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Henkel

13.1.1 Henkel Company Information

13.1.2 Henkel Thermally Conductive Phase Change Materials Product Portfolios and Specifications

13.1.3 Henkel Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Henkel Main Business Overview

13.1.5 Henkel Latest Developments

13.2 Honeywell

13.2.1 Honeywell Company Information

13.2.2 Honeywell Thermally Conductive Phase Change Materials Product Portfolios and Specifications

13.2.3 Honeywell Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Honeywell Main Business Overview

13.2.5 Honeywell Latest Developments

13.3 Parker Hannifin

13.3.1 Parker Hannifin Company Information

13.3.2 Parker Hannifin Thermally Conductive Phase Change Materials Product Portfolios and Specifications

13.3.3 Parker Hannifin Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Parker Hannifin Main Business Overview

13.3.5 Parker Hannifin Latest Developments

13.4 Laird

13.4.1 Laird Company Information

13.4.2 Laird Thermally Conductive Phase Change Materials Product Portfolios and Specifications

13.4.3 Laird Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 Laird Main Business Overview
- 13.4.5 Laird Latest Developments
- 13.5 Momenive
 - 13.5.1 Momenive Company Information
 - 13.5.2 Momenive Thermally Conductive Phase Change Materials Product Portfolios and Specifications
 - 13.5.3 Momenive Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Momenive Main Business Overview
 - 13.5.5 Momenive Latest Developments
- 13.6 3M
 - 13.6.1 3M Company Information
 - 13.6.2 3M Thermally Conductive Phase Change Materials Product Portfolios and Specifications
 - 13.6.3 3M Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 3M Main Business Overview
 - 13.6.5 3M Latest Developments
- 13.7 Wakefield Thermal
 - 13.7.1 Wakefield Thermal Company Information
 - 13.7.2 Wakefield Thermal Thermally Conductive Phase Change Materials Product Portfolios and Specifications
 - 13.7.3 Wakefield Thermal Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Wakefield Thermal Main Business Overview
 - 13.7.5 Wakefield Thermal Latest Developments
- 13.8 AI Technology
 - 13.8.1 AI Technology Company Information
 - 13.8.2 AI Technology Thermally Conductive Phase Change Materials Product Portfolios and Specifications
 - 13.8.3 AI Technology Thermally Conductive Phase Change Materials Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 AI Technology Main Business Overview
 - 13.8.5 AI Technology Latest Developments
- 13.9 Shanghai Allied
 - 13.9.1 Shanghai Allied Company Information
 - 13.9.2 Shanghai Allied Thermally Conductive Phase Change Materials Product Portfolios and Specifications
 - 13.9.3 Shanghai Allied Thermally Conductive Phase Change Materials Sales,

Revenue, Price and Gross Margin (2021-2026)

13.9.4 Shanghai Allied Main Business Overview

13.9.5 Shanghai Allied Latest Developments

13.10 Suzhou Techinno

13.10.1 Suzhou Techinno Company Information

13.10.2 Suzhou Techinno Thermally Conductive Phase Change Materials Product

Portfolios and Specifications

13.10.3 Suzhou Techinno Thermally Conductive Phase Change Materials Sales,
Revenue, Price and Gross Margin (2021-2026)

13.10.4 Suzhou Techinno Main Business Overview

13.10.5 Suzhou Techinno Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Thermally Conductive Phase Change Materials Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Thermally Conductive Phase Change Materials Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Phase Change Pads and Films

Table 4. Major Players of Phase Change Rolls and Sheets

Table 5. Major Players of Phase Change Pastes and Compounds

Table 6. Major Players of Pre-Applied Phase Change Materials

Table 7. Major Players of Die-Cut Phase Change Parts

Table 8. Global Thermally Conductive Phase Change Materials Sales by Type (2021-2026) & (kg)

Table 9. Global Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)

Table 10. Global Thermally Conductive Phase Change Materials Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Thermally Conductive Phase Change Materials Revenue Market Share by Type (2021-2026)

Table 12. Global Thermally Conductive Phase Change Materials Sale Price by Type (2021-2026) & (US\$/kg)

Table 13. Major Players of Below 3 W/m²K

Table 14. Major Players of 3 to 6 W/m²K

Table 15. Major Players of 6 to 10 W/m²K

Table 16. Major Players of Above 10 W/m²K

Table 17. Global Thermally Conductive Phase Change Materials Sales by Thermal Conductivity (2021-2026) & (kg)

Table 18. Global Thermally Conductive Phase Change Materials Sales Market Share by Thermal Conductivity (2021-2026)

Table 19. Global Thermally Conductive Phase Change Materials Revenue by Thermal Conductivity (2021-2026) & (\$ million)

Table 20. Global Thermally Conductive Phase Change Materials Revenue Market Share by Thermal Conductivity (2021-2026)

Table 21. Global Thermally Conductive Phase Change Materials Sale Price by Thermal Conductivity (2021-2026) & (US\$/kg)

Table 22. Major Players of Below 45°C

Table 23. Major Players of 45 to 55°C

Table 24. Major Players of 55 to 65°C

Table 25. Major Players of Above 65°C

Table 26. Global Thermally Conductive Phase Change Materials Sales by Phase Change Temperature (2021-2026) & (kg)

Table 27. Global Thermally Conductive Phase Change Materials Sales Market Share by Phase Change Temperature (2021-2026)

Table 28. Global Thermally Conductive Phase Change Materials Revenue by Phase Change Temperature (2021-2026) & (\$ million)

Table 29. Global Thermally Conductive Phase Change Materials Revenue Market Share by Phase Change Temperature (2021-2026)

Table 30. Global Thermally Conductive Phase Change Materials Sale Price by Phase Change Temperature (2021-2026) & (US\$/kg)

Table 31. Major Players of Silicone-Based

Table 32. Major Players of Silicone-Free Polymer

Table 33. Major Players of Wax-Based Composite

Table 34. Major Players of Graphite or Carbon Hybrid

Table 35. Major Players of Other Matrix

Table 36. Global Thermally Conductive Phase Change Materials Sales by Matrix Chemistry (2021-2026) & (kg)

Table 37. Global Thermally Conductive Phase Change Materials Sales Market Share by Matrix Chemistry (2021-2026)

Table 38. Global Thermally Conductive Phase Change Materials Revenue by Matrix Chemistry (2021-2026) & (\$ million)

Table 39. Global Thermally Conductive Phase Change Materials Revenue Market Share by Matrix Chemistry (2021-2026)

Table 40. Global Thermally Conductive Phase Change Materials Sale Price by Matrix Chemistry (2021-2026) & (US\$/kg)

Table 41. Global Thermally Conductive Phase Change Materials Sale by Application (2021-2026) & (kg)

Table 42. Global Thermally Conductive Phase Change Materials Sale Market Share by Application (2021-2026)

Table 43. Global Thermally Conductive Phase Change Materials Revenue by Application (2021-2026) & (\$ million)

Table 44. Global Thermally Conductive Phase Change Materials Revenue Market Share by Application (2021-2026)

Table 45. Global Thermally Conductive Phase Change Materials Sale Price by Application (2021-2026) & (US\$/kg)

Table 46. Global Thermally Conductive Phase Change Materials Sales by Company (2021-2026) & (kg)

Table 47. Global Thermally Conductive Phase Change Materials Sales Market Share by Company (2021-2026)

Table 48. Global Thermally Conductive Phase Change Materials Revenue by Company (2021-2026) & (\$ millions)

Table 49. Global Thermally Conductive Phase Change Materials Revenue Market Share by Company (2021-2026)

Table 50. Global Thermally Conductive Phase Change Materials Sale Price by Company (2021-2026) & (US\$/kg)

Table 51. Key Manufacturers Thermally Conductive Phase Change Materials Producing Area Distribution and Sales Area

Table 52. Players Thermally Conductive Phase Change Materials Products Offered

Table 53. Thermally Conductive Phase Change Materials Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 54. New Products and Potential Entrants

Table 55. Market M&A Activity & Strategy

Table 56. Global Thermally Conductive Phase Change Materials Sales by Geographic Region (2021-2026) & (kg)

Table 57. Global Thermally Conductive Phase Change Materials Sales Market Share Geographic Region (2021-2026)

Table 58. Global Thermally Conductive Phase Change Materials Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 59. Global Thermally Conductive Phase Change Materials Revenue Market Share by Geographic Region (2021-2026)

Table 60. Global Thermally Conductive Phase Change Materials Sales by Country/Region (2021-2026) & (kg)

Table 61. Global Thermally Conductive Phase Change Materials Sales Market Share by Country/Region (2021-2026)

Table 62. Global Thermally Conductive Phase Change Materials Revenue by Country/Region (2021-2026) & (\$ millions)

Table 63. Global Thermally Conductive Phase Change Materials Revenue Market Share by Country/Region (2021-2026)

Table 64. Americas Thermally Conductive Phase Change Materials Sales by Country (2021-2026) & (kg)

Table 65. Americas Thermally Conductive Phase Change Materials Sales Market Share by Country (2021-2026)

Table 66. Americas Thermally Conductive Phase Change Materials Revenue by Country (2021-2026) & (\$ millions)

Table 67. Americas Thermally Conductive Phase Change Materials Sales by Type (2021-2026) & (kg)

Table 68. Americas Thermally Conductive Phase Change Materials Sales by Application (2021-2026) & (kg)
Table 69. APAC Thermally Conductive Phase Change Materials Sales by Region (2021-2026) & (kg)
Table 70. APAC Thermally Conductive Phase Change Materials Sales Market Share by Region (2021-2026)
Table 71. APAC Thermally Conductive Phase Change Materials Revenue by Region (2021-2026) & (\$ millions)
Table 72. APAC Thermally Conductive Phase Change Materials Sales by Type (2021-2026) & (kg)
Table 73. APAC Thermally Conductive Phase Change Materials Sales by Application (2021-2026) & (kg)
Table 74. Europe Thermally Conductive Phase Change Materials Sales by Country (2021-2026) & (kg)
Table 75. Europe Thermally Conductive Phase Change Materials Revenue by Country (2021-2026) & (\$ millions)
Table 76. Europe Thermally Conductive Phase Change Materials Sales by Type (2021-2026) & (kg)
Table 77. Europe Thermally Conductive Phase Change Materials Sales by Application (2021-2026) & (kg)
Table 78. Middle East & Africa Thermally Conductive Phase Change Materials Sales by Country (2021-2026) & (kg)
Table 79. Middle East & Africa Thermally Conductive Phase Change Materials Revenue Market Share by Country (2021-2026)
Table 80. Middle East & Africa Thermally Conductive Phase Change Materials Sales by Type (2021-2026) & (kg)
Table 81. Middle East & Africa Thermally Conductive Phase Change Materials Sales by Application (2021-2026) & (kg)
Table 82. Key Market Drivers & Growth Opportunities of Thermally Conductive Phase Change Materials
Table 83. Key Market Challenges & Risks of Thermally Conductive Phase Change Materials
Table 84. Key Industry Trends of Thermally Conductive Phase Change Materials
Table 85. Thermally Conductive Phase Change Materials Raw Material
Table 86. Key Suppliers of Raw Materials
Table 87. Thermally Conductive Phase Change Materials Distributors List
Table 88. Thermally Conductive Phase Change Materials Customer List
Table 89. Global Thermally Conductive Phase Change Materials Sales Forecast by Region (2027-2032) & (kg)

Table 90. Global Thermally Conductive Phase Change Materials Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 91. Americas Thermally Conductive Phase Change Materials Sales Forecast by Country (2027-2032) & (kg)

Table 92. Americas Thermally Conductive Phase Change Materials Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 93. APAC Thermally Conductive Phase Change Materials Sales Forecast by Region (2027-2032) & (kg)

Table 94. APAC Thermally Conductive Phase Change Materials Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 95. Europe Thermally Conductive Phase Change Materials Sales Forecast by Country (2027-2032) & (kg)

Table 96. Europe Thermally Conductive Phase Change Materials Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 97. Middle East & Africa Thermally Conductive Phase Change Materials Sales Forecast by Country (2027-2032) & (kg)

Table 98. Middle East & Africa Thermally Conductive Phase Change Materials Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 99. Global Thermally Conductive Phase Change Materials Sales Forecast by Type (2027-2032) & (kg)

Table 100. Global Thermally Conductive Phase Change Materials Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 101. Global Thermally Conductive Phase Change Materials Sales Forecast by Application (2027-2032) & (kg)

Table 102. Global Thermally Conductive Phase Change Materials Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 103. Henkel Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 104. Henkel Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 105. Henkel Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 106. Henkel Main Business

Table 107. Henkel Latest Developments

Table 108. Honeywell Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 109. Honeywell Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 110. Honeywell Thermally Conductive Phase Change Materials Sales (kg),

Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 111. Honeywell Main Business

Table 112. Honeywell Latest Developments

Table 113. Parker Hannifin Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 114. Parker Hannifin Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 115. Parker Hannifin Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 116. Parker Hannifin Main Business

Table 117. Parker Hannifin Latest Developments

Table 118. Laird Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 119. Laird Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 120. Laird Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 121. Laird Main Business

Table 122. Laird Latest Developments

Table 123. Momentive Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 124. Momentive Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 125. Momentive Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 126. Momentive Main Business

Table 127. Momentive Latest Developments

Table 128. 3M Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 129. 3M Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 130. 3M Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 131. 3M Main Business

Table 132. 3M Latest Developments

Table 133. Wakefield Thermal Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 134. Wakefield Thermal Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 135. Wakefield Thermal Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 136. Wakefield Thermal Main Business

Table 137. Wakefield Thermal Latest Developments

Table 138. AI Technology Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 139. AI Technology Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 140. AI Technology Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 141. AI Technology Main Business

Table 142. AI Technology Latest Developments

Table 143. Shanghai Allied Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 144. Shanghai Allied Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 145. Shanghai Allied Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 146. Shanghai Allied Main Business

Table 147. Shanghai Allied Latest Developments

Table 148. Suzhou Techinno Basic Information, Thermally Conductive Phase Change Materials Manufacturing Base, Sales Area and Its Competitors

Table 149. Suzhou Techinno Thermally Conductive Phase Change Materials Product Portfolios and Specifications

Table 150. Suzhou Techinno Thermally Conductive Phase Change Materials Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 151. Suzhou Techinno Main Business

Table 152. Suzhou Techinno Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Thermally Conductive Phase Change Materials

Figure 2. Thermally Conductive Phase Change Materials Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Thermally Conductive Phase Change Materials Sales Growth Rate 2021-2032 (kg)

Figure 7. Global Thermally Conductive Phase Change Materials Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Thermally Conductive Phase Change Materials Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Thermally Conductive Phase Change Materials Sales Market Share by Country/Region (2025)

Figure 10. Thermally Conductive Phase Change Materials Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Phase Change Pads and Films

Figure 12. Product Picture of Phase Change Rolls and Sheets

Figure 13. Product Picture of Phase Change Pastes and Compounds

Figure 14. Product Picture of Pre-Applied Phase Change Materials

Figure 15. Product Picture of Die-Cut Phase Change Parts

Figure 16. Global Thermally Conductive Phase Change Materials Sales Market Share by Type in 2026

Figure 17. Global Thermally Conductive Phase Change Materials Revenue Market Share by Type (2021-2026)

Figure 18. Product Picture of Below 3 W/m²K

Figure 19. Product Picture of 3 to 6 W/m²K

Figure 20. Product Picture of 6 to 10 W/m²K

Figure 21. Product Picture of Above 10 W/m²K

Figure 22. Global Thermally Conductive Phase Change Materials Sales Market Share by Thermal Conductivity in 2026

Figure 23. Global Thermally Conductive Phase Change Materials Revenue Market Share by Thermal Conductivity (2021-2026)

Figure 24. Product Picture of Below 45°C

Figure 25. Product Picture of 45 to 55°C

Figure 26. Product Picture of 55 to 65°C

Figure 27. Product Picture of Above 65°C

Figure 28. Global Thermally Conductive Phase Change Materials Sales Market Share by Phase Change Temperature in 2026

Figure 29. Global Thermally Conductive Phase Change Materials Revenue Market Share by Phase Change Temperature (2021-2026)

Figure 30. Product Picture of Silicone-Based

Figure 31. Product Picture of Silicone-Free Polymer

Figure 32. Product Picture of Wax-Based Composite

Figure 33. Product Picture of Graphite or Carbon Hybrid

Figure 34. Product Picture of Other Matrix

Figure 35. Global Thermally Conductive Phase Change Materials Sales Market Share by Matrix Chemistry in 2026

Figure 36. Global Thermally Conductive Phase Change Materials Revenue Market Share by Matrix Chemistry (2021-2026)

Figure 37. Thermally Conductive Phase Change Materials Consumed in Computing and Data Centers

Figure 38. Global Thermally Conductive Phase Change Materials Market: Computing and Data Centers (2021-2026) & (kg)

Figure 39. Thermally Conductive Phase Change Materials Consumed in Consumer Electronics

Figure 40. Global Thermally Conductive Phase Change Materials Market: Consumer Electronics (2021-2026) & (kg)

Figure 41. Thermally Conductive Phase Change Materials Consumed in Telecom and Networking

Figure 42. Global Thermally Conductive Phase Change Materials Market: Telecom and Networking (2021-2026) & (kg)

Figure 43. Thermally Conductive Phase Change Materials Consumed in Automotive Electronics

Figure 44. Global Thermally Conductive Phase Change Materials Market: Automotive Electronics (2021-2026) & (kg)

Figure 45. Thermally Conductive Phase Change Materials Consumed in Power Electronics and Industrial

Figure 46. Global Thermally Conductive Phase Change Materials Market: Power Electronics and Industrial (2021-2026) & (kg)

Figure 47. Thermally Conductive Phase Change Materials Consumed in Medical and Aerospace

Figure 48. Global Thermally Conductive Phase Change Materials Market: Medical and Aerospace (2021-2026) & (kg)

Figure 49. Global Thermally Conductive Phase Change Materials Sale Market Share by

Application (2025)

Figure 50. Global Thermally Conductive Phase Change Materials Revenue Market Share by Application in 2025

Figure 51. Thermally Conductive Phase Change Materials Sales by Company in 2025 (kg)

Figure 52. Global Thermally Conductive Phase Change Materials Sales Market Share by Company in 2025

Figure 53. Thermally Conductive Phase Change Materials Revenue by Company in 2025 (\$ millions)

Figure 54. Global Thermally Conductive Phase Change Materials Revenue Market Share by Company in 2025

Figure 55. Global Thermally Conductive Phase Change Materials Sales Market Share by Geographic Region (2021-2026)

Figure 56. Global Thermally Conductive Phase Change Materials Revenue Market Share by Geographic Region in 2025

Figure 57. Americas Thermally Conductive Phase Change Materials Sales 2021-2026 (kg)

Figure 58. Americas Thermally Conductive Phase Change Materials Revenue 2021-2026 (\$ millions)

Figure 59. APAC Thermally Conductive Phase Change Materials Sales 2021-2026 (kg)

Figure 60. APAC Thermally Conductive Phase Change Materials Revenue 2021-2026 (\$ millions)

Figure 61. Europe Thermally Conductive Phase Change Materials Sales 2021-2026 (kg)

Figure 62. Europe Thermally Conductive Phase Change Materials Revenue 2021-2026 (\$ millions)

Figure 63. Middle East & Africa Thermally Conductive Phase Change Materials Sales 2021-2026 (kg)

Figure 64. Middle East & Africa Thermally Conductive Phase Change Materials Revenue 2021-2026 (\$ millions)

Figure 65. Americas Thermally Conductive Phase Change Materials Sales Market Share by Country in 2025

Figure 66. Americas Thermally Conductive Phase Change Materials Revenue Market Share by Country (2021-2026)

Figure 67. Americas Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)

Figure 68. Americas Thermally Conductive Phase Change Materials Sales Market Share by Application (2021-2026)

Figure 69. United States Thermally Conductive Phase Change Materials Revenue

Growth 2021-2026 (\$ millions)

Figure 70. Canada Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 71. Mexico Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 72. Brazil Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 73. APAC Thermally Conductive Phase Change Materials Sales Market Share by Region in 2025

Figure 74. APAC Thermally Conductive Phase Change Materials Revenue Market Share by Region (2021-2026)

Figure 75. APAC Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)

Figure 76. APAC Thermally Conductive Phase Change Materials Sales Market Share by Application (2021-2026)

Figure 77. China Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 78. Japan Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Korea Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 80. Southeast Asia Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 81. India Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 82. Australia Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 83. China Taiwan Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 84. Europe Thermally Conductive Phase Change Materials Sales Market Share by Country in 2025

Figure 85. Europe Thermally Conductive Phase Change Materials Revenue Market Share by Country (2021-2026)

Figure 86. Europe Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)

Figure 87. Europe Thermally Conductive Phase Change Materials Sales Market Share by Application (2021-2026)

Figure 88. Germany Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 89. France Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 90. UK Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 91. Italy Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 92. Russia Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 93. Middle East & Africa Thermally Conductive Phase Change Materials Sales Market Share by Country (2021-2026)

Figure 94. Middle East & Africa Thermally Conductive Phase Change Materials Sales Market Share by Type (2021-2026)

Figure 95. Middle East & Africa Thermally Conductive Phase Change Materials Sales Market Share by Application (2021-2026)

Figure 96. Egypt Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 97. South Africa Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 98. Israel Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 99. Turkey Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 100. GCC Countries Thermally Conductive Phase Change Materials Revenue Growth 2021-2026 (\$ millions)

Figure 101. Manufacturing Cost Structure Analysis of Thermally Conductive Phase Change Materials in 2026

Figure 102. Manufacturing Process Analysis of Thermally Conductive Phase Change Materials

Figure 103. Industry Chain Structure of Thermally Conductive Phase Change Materials

Figure 104. Channels of Distribution

Figure 105. Global Thermally Conductive Phase Change Materials Sales Market Forecast by Region (2027-2032)

Figure 106. Global Thermally Conductive Phase Change Materials Revenue Market Share Forecast by Region (2027-2032)

Figure 107. Global Thermally Conductive Phase Change Materials Sales Market Share Forecast by Type (2027-2032)

Figure 108. Global Thermally Conductive Phase Change Materials Revenue Market Share Forecast by Type (2027-2032)

Figure 109. Global Thermally Conductive Phase Change Materials Sales Market Share

Forecast by Application (2027-2032)

Figure 110. Global Thermally Conductive Phase Change Materials Revenue Market
Share Forecast by Application (2027-2032)

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