

Global Graphene-enhanced Phase Change Thermal Interface Materials Market Growth 2026-2032

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Abstracts

The global Graphene-enhanced Phase Change Thermal Interface Materials market size is predicted to grow from US\$ 60.65 million in 2025 to US\$ 211 million in 2032; it is expected to grow at a CAGR of 18.5% from 2026 to 2032.

Graphene-enhanced phase change composite thermal interface materials are high-performance solid products composed of phase-change polymers, wax-based or thermoplastic resin matrices reinforced with graphene, graphene nanoplatelets, or carbon-based hybrid fillers. They are supplied as solid pads, films, coated layers, or dispensable/printable formulations, fabricated via high-temperature annealing, hot pressing, and precision composite processes. Key specifications include through-plane thermal conductivity, phase-change temperature, softening flow, and surface wetting, enabling the material to fill microscopic gaps between chips, power modules, heat sinks, and package substrates to achieve low interfacial thermal resistance, efficient heat spreading, and uniform thermal management. Primary applications cover AI processors, CPUs/GPUs, servers, high-power semiconductors, and electric vehicle power electronics. In 2025, the average gross margin of the global graphene-enhanced phase change composite thermal interface materials industry was approximately 32%-45%. The mainstream price range for industrial-grade finished products was around 150-800 USD/Kg, while high-end customized specifications could reach 1,000-1,500 USD/Kg.

The graphene-enhanced phase change composite thermal interface materials sector is an emerging growth segment, driven by rapid demand from AI processors, servers, and electric vehicle power electronics for efficient heat dissipation in high-power-density electronic devices. The upstream relies on high-purity graphene and carbon-based composite fabrication, the midstream focuses on phase-change and thermal interface composite manufacturing, and the downstream applications encompass high-

performance computing, power semiconductors, and EV control modules. The industry is characterized by high technological barriers, long certification cycles, and strong market stickiness, ensuring high added value. From the supply perspective, European and North American companies hold mature advantages in high-performance composite and phase-change material manufacturing, while Chinese domestic enterprises are quickly advancing, leveraging graphene R&D and cost-effective processing to build competitiveness. The global market exhibits a multipolar structure, with core companies occupying the high-end segment and smaller or regional enterprises supplying customized solutions for diverse applications. Mergers, capacity expansions, and new product launches continue to drive technological iteration and supply chain optimization. Future development will focus on enhancing thermal conductivity, reducing interfacial thermal resistance, and expanding customized applications, while improving longevity, thermal stability, and consistent heat dissipation performance. As AI, high-performance servers, and electric vehicles expand, graphene-enhanced phase change TIMs are expected to enter broader production and applications, with downstream demand driving the adoption of high-end products. The industry will steadily move toward higher value, technology-intensive development.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Graphene-enhanced Phase Change Thermal Interface 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 Graphene-enhanced Phase Change Thermal Interface Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Graphene-enhanced Phase Change Thermal Interface Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Phase Change Thermal Pad

Phase Change Thermal Film

Coated Phase Change Material

Dispensable Phase Change Material

Others

Segmentation by Phase Change Temperature:

Low-temperature Phase Change Type (<45°C)

Medium-temperature Phase Change Type (45-65°C)

High-temperature Phase Change Type (>65°C)

Others

Segmentation by Thermal Conductivity Grade:

Standard Conductivity Type (<5 W/m·K)

High Conductivity Type (5-10 W/m²K)

Ultra-high Conductivity Type (>10 W/m²K)

Others

Segmentation by Application:

Semiconductor and Electronics

Automotive and New Energy Vehicles

Data Center and Cloud Computing

Industrial Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell International Inc

Henkel AG & Co. KGaA

Parker Hannifin Corporation

Laird Performance Materials

Boyd Corporation

Allied Material Technology Corp.

AOK Technologies

Shenzhen HFC Shielding Products Co., Ltd.

Smart High-Tech AB

Shenzhen FRD Science & Technology Co., Ltd.

Jones Tech PLC

Shenzhen Darbond Technology Co., Ltd. / Yantai Darbond Technology Co., Ltd.

Shenzhen Qingyan Haolong New Energy Technology Co., Ltd.

Phase Change Energy Storage (Beijing) Technology Co., Ltd.

Shenzhen Beichuan Lihe Technology Co., Ltd.

Sheen Electronical Technology Co., Ltd.

Tanyuan Technology Co., Ltd.

Shin-Etsu Chemical Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Graphene-enhanced Phase Change Thermal Interface Materials market?

What factors are driving Graphene-enhanced Phase Change Thermal Interface Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Graphene-enhanced Phase Change Thermal Interface Materials market opportunities vary by end market size?
How does Graphene-enhanced Phase Change Thermal Interface Materials break out by Type, by Application?

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