

Global Thermally Conductive Phase Change Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thermally Conductive Phase Change Materials market size was valued at US\$ 1938 million in 2025 and is forecast to a readjusted size of US\$ 2965 million by 2032 with a CAGR of 6.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Thermally Conductive Phase Change Materials 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 Phase Change Materials market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Thermally Conductive Phase Change Materials 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 Phase Change Materials 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 Phase Change Materials 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 Phase Change Materials

- 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 Phase Change Materials 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 Henkel, Honeywell, Parker Hannifin, Laird, Momentive, 3M, Wakefield Thermal, AI Technology, Shanghai Allied, Suzhou Techinno, etc.

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

Market Segmentation

Thermally Conductive Phase Change Materials 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

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

Market segment by Thermal Conductivity

Below 3 W/m²K

3 to 6 W/m²K

6 to 10 W/m²K

Above 10 W/m²K

Market segment by Phase Change Temperature

Below 45°C

45 to 55°C

55 to 65°C

Above 65°C

Market segment by Matrix Chemistry

Silicone-Based

Silicone-Free Polymer

Wax-Based Composite

Graphite or Carbon Hybrid

Other Matrix

Market segment by Application

Computing and Data Centers

Consumer Electronics

Telecom and Networking

Automotive Electronics

Power Electronics and Industrial

Medical and Aerospace

Major players covered

Henkel

Honeywell

Parker Hannifin

Laird

Momentive

3M

Wakefield Thermal

AI Technology

Shanghai Allied

Suzhou Techinno

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 Phase Change Materials product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Thermally Conductive Phase Change Materials 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 Phase Change Materials 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 Phase Change Materials.

Chapter 14 and 15, to describe Thermally Conductive Phase Change Materials sales channel, distributors, customers, research findings and conclusion.

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