

Global Phase Change Thermal Material 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 Phase Change Thermal Material market size was valued at US\$ 1183 million in 2025 and is forecast to a readjusted size of US\$ 2473 million by 2032 with a CAGR of 10.6% during review period.

Phase Change Thermal Interface Materials are high-performance thermal interface materials designed to combine the handling advantages of a solid or semi-solid material at room temperature with the wetting and gap-filling capability of a softened or flowable material at operating temperature. They are used to fill microscopic gaps between heat-generating components and heat spreaders, heat sinks, cold plates, vapor chambers, metal housings or package lids, thereby reducing interfacial thermal resistance and improving heat dissipation efficiency. These materials are typically supplied as pads, films, preforms, dispensable or printable compounds, or phase-change metal alloy TIMs. When the device reaches the material's phase-change or softening temperature, the material softens, melts or flows to wet the contact surfaces, displace trapped air and form a thin, stable bondline. Common material systems include polymer-based, silicone-based, wax-based, filled composite and metal alloy phase-change TIMs. Key applications include CPUs, GPUs, AI servers, power modules, IGBTs, inverters, telecom equipment, automotive electronics, optical modules and high-power industrial electronics.

Based on our research, phase change thermal interface materials represent a high-performance segment within the TIM market, positioned between thermal grease and conventional thermal pads. Their core value lies in their solid form at room temperature, which enables convenient assembly, and their ability to soften and wet the interface at

operating temperature. This allows them to achieve lower contact thermal resistance than ordinary pads, while offering better thickness consistency, processability, and pump-out resistance than thermal grease. As the power density of CPUs, GPUs, AI accelerators, power modules, and automotive electronics continues to rise, thermal interfaces are no longer merely auxiliary materials; they have become important design variables affecting system reliability, noise, power consumption, and long-term performance stability. High-end servers, supercomputing systems, AI accelerator cards, inverters, and IGBT modules are currently the most important growth scenarios for phase change TIMs. From the supply-side structure, the global market is composed of a small number of international materials giants, specialized thermal management material suppliers, and Chinese domestic thermal material companies. Honeywell, Henkel, Parker Chomerics, Laird, Shin-Etsu, Indium, and other suppliers have advantages in material systems, customer qualification, global supply chains, and brand recognition, particularly in servers, telecommunications, automotive electronics, and high-reliability industrial electronics. Chinese domestic suppliers mainly enter the market through cost-performance advantages, customized die-cutting, local delivery, and supply chains for consumer electronics, power supplies, and servers. Because PCM TIMs usually need to be validated together with the customer's device structure, assembly pressure, operating temperature, heat sink surface roughness, and reliability testing, the industry is not driven by simple price competition. From the demand-side structure, AI servers and high-performance computing are becoming one of the most important sources of incremental demand for phase change thermal materials. As the power consumption of GPUs and AI accelerators increases, interface thermal resistance has a greater impact on chip temperature and frequency stability. The shortcomings of traditional thermal grease in long-term reliability and assembly consistency are driving some customers to adopt phase change pads or phase change films. Automotive electronics and power modules place greater emphasis on thermal cycling, vibration, service life, and resistance to material loss, while telecom equipment and optical modules focus more on stable heat dissipation under high-density packaging. Different applications have different requirements for material thickness, softening temperature, thermal conductivity, dielectric properties, outgassing, reliability, and reworkability, giving the PCM TIM market a clear application-specific customization profile. From a technology roadmap perspective, phase change thermal interface materials will continue to evolve toward lower thermal resistance, thinner bondlines, higher thermal-conductivity fillers, lower outgassing, stronger pump-out resistance, better automated placement, and higher reliability. Polymer-based and silicone-based phase change pads remain the mainstream solutions, while metal phase change TIMs have differentiated potential in TIM0 / TIM1 and high-heat-flux applications. However, their large-scale adoption is limited by cost, reworkability, electrical insulation

requirements, and process compatibility. The key to future competition will not be nominal material thermal conductivity alone, but actual interface thermal resistance, thermal resistance stability after aging, customer qualification data, supply consistency, and co-design capability with the overall system thermal architecture.

This report is a detailed and comprehensive analysis for global Phase Change Thermal Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material System 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 Phase Change Thermal Material market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Phase Change Thermal Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Phase Change Thermal Material market size and forecasts, by Material System and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Phase Change Thermal Material market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 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 Phase Change Thermal Material

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 Phase Change Thermal Material 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 Honeywell International Inc., Henkel AG & Co. KGaA, Parker Hannifin, Laird Performance Materials, Shin-Etsu Chemical Co., Ltd., Indium Corporation, 3M Company, Dow Inc., Wakefield Thermal, Allied Corporation, etc.

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

Market Segmentation

Phase Change Thermal Material market is split by Material System and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material System, 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 Material System

Polymer-based PCM TIM

Silicone-based PCM TIM

Wax-based PCM TIM

Metal Alloy PCM TIM

Market segment by Phase-change Temperature

Low-temperature PCM

Mid-temperature PCM

High-temperature PCM

Market segment by Interface Position

TIM0 PCM

TIM1 PCM

TIM1.5 PCM

TIM2 PCM

Market segment by Application

CPU / GPU / AI Accelerator

AI Server / Data Center Hardware

Power Module / IGBT / Inverter

Automotive Electronics

Telecom / Datacom Equipment

Major players covered

Honeywell International Inc.

Henkel AG & Co. KGaA

Parker Hannifin

Laird Performance Materials

Shin-Etsu Chemical Co., Ltd.

Indium Corporation

3M Company

Dow Inc.

Wakefield Thermal

Allied Corporation

Shenzhen HFC Shielding Products Co., Ltd.

EMEI Group

AOK Technologies

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

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

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

Chapter 4, the Phase Change Thermal Material 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 Material System and by Application, with sales market share and growth rate by Material System, 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 Phase Change Thermal Material market forecast, by regions, by Material System, 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 Phase Change Thermal Material.

Chapter 14 and 15, to describe Phase Change Thermal Material sales channel, distributors, customers, research findings and conclusion.

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