

Global Phase Change Materials Gel Pack Market Growth 2025-2031

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Abstracts

The global Phase Change Materials Gel Pack market size is predicted to grow from US\$ 177 million in 2025 to US\$ 234 million in 2031; it is expected to grow at a CAGR of 4.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Phase change material gel pack is a functional product that uses the thermophysical properties of phase change materials to achieve temperature control, the core of which consists of a polymer gel with a specific phase change temperature compounded with a phase change material (such as alkanes, hydrated salts or fatty acids, etc.). When absorbing or releasing heat, these gel packs will maintain a relatively stable temperature within a certain range through a phase change process (solid-liquid or liquid-solid transformation), rather than warming up or cooling down as rapidly as ordinary materials. The structure is usually encapsulated with polymer, which is both flexible and durable, and can be designed into different shapes and specifications according to the application scenarios. They are widely used in medical cold/hot packs, food preservation, temperature control of electronic devices, and thermal insulation of outdoor equipments, etc. They can achieve precise temperature management through the characteristics of phase-change energy storage, and they are the typical functional products integrating the material science and thermal management technology.

United States market for Phase Change Materials Gel Pack is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Phase Change Materials Gel Pack is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Phase Change Materials Gel Pack is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Phase Change Materials Gel Pack players cover Sonoco ThermoSafe, IPC, Cryopak, Phase Change Material Products Limited, Cold Chain Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Phase Change Materials Gel Pack Industry Forecast" looks at past sales and reviews total world Phase Change Materials Gel Pack sales in 2024, providing a comprehensive analysis by region and market sector of projected Phase Change Materials Gel Pack sales for 2025 through 2031. With Phase Change Materials Gel Pack sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Phase Change Materials Gel Pack industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Phase Change Materials Gel Pack market by product type, application,

key manufacturers and key regions and countries.

Segmentation by Type:

Low Temperature Gel Packs

Medium Temperature Gel Packs

High Temperature Gel Packs

Segmentation by Application:

Pharmaceuticals

Blood and Laboratory Samples

Biologicals

Foodstuffs

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.

Sonoco ThermoSafe

IPC

Cryopak

Phase Change Material Products Limited

Cold Chain Technologies

RGEES, LLC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Phase Change Materials Gel Pack market?

What factors are driving Phase Change Materials Gel Pack market growth, globally and by region?

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

How do Phase Change Materials Gel Pack market opportunities vary by end market size?

How does Phase Change Materials Gel Pack break out by Type, by Application?

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