

Phase change solar container material market demand analysis





Overview

The phase change material market was valued at USD 1,370.70 million in 2023 and is expected to grow at a robust CAGR of around 20.45% during the forecast period (2024-2032) driven by the growing application in the building and construction industry, which leads to save colossal. The global phase change materials market was estimated at USD 2.6 billion in 2024. The market is expected to grow from USD 3 billion in 2025 to USD 7.9 billion in 2034, at a CAGR of 11.4%, according to latest report published by Global Market Insights Inc. Market growth is rising demand for. The global phase change materials market size was valued at USD 2.93 billion in 2024 and is anticipated to reach USD 3.54 billion in 2025 and USD 16.11 billion by 2033, growing at a CAGR of 20.85% during the forecast period from 2025 to 2033. The Phase Change Materials (PCMs) are engineered to. Phase Change Materials market size in 2026 is estimated at \$1.08 billion, growing from 2025 value of \$0.92 billion with 2031 projections showing USD 2.41 billion, growing at 17.42% CAGR over 2026-2031. Lengthening heat waves, net-zero construction goals, and rapid electrification in transport now. The global Phase Change Material (PCM) market size is projected to experience significant growth, expanding from USD 1.5 billion in 2023 to an estimated USD 4.5 billion by 2032, according to a compound annual growth rate (CAGR) of approximately 12.5%. This substantial growth is driven by the. In the year 2026, the industry size of phase change material is assessed at USD 1.61 billion. Discover Market Trends & Growth Opportunities: Request Free Sample PDF The significant element driving the market revenue is the surging investment in the energy sector. As prognosticated by the. The global phase change materials market will witness a robust CAGR of 15%, valued at \$1.66 billion in 2021, expected to appreciate and reach \$5.1 billion by 2030, confirms Strategic Market Research. Europe accounted for a sizeable market share of over 30% in the year 2020 and held the largest.



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Phase Change Materials Market, Trends and Forecast 2033

The global Phase Change Materials Market Size was valued at USD 839 billion in 2024 and is projected to reach from USD 974 billion in 2025 to USD 3193 billion by 2033, growing at a CAGR of 16% ...

Phase Change Material (PCM) Market Report , Global Forecast From ...

The global Phase Change Material (PCM) market size is projected to experience significant growth, expanding from USD 1.5 billion in 2023 to an estimated USD 4.5 billion by 2032, according to a ...



Phase change materials in solar photovoltaics applied in buildings: An

Integrating phase change materials with photovoltaic panels could simultaneously provide thermal regulation for the panel as well as thermal energy storage for the building. During the last two ...

Phase Change Materials Market Growth, Outlook, Forecasts to 2033

Global Phase Change Materials Market Size is expected to reach USD 4275.9 Million by 2033, at a CAGR of 13.93% during the forecast period



2023 to 2033.



System Performance and Economic Analysis of a Phase Change Material



We studied a shipping container integrated with phase change material (PCM) based thermal energy storage (TES) units for cold chain transportation applications. A 40 ft container was ...

Phase Change Materials Market Size, Share & Trends, 2033

The global phase change materials market size was valued at USD 2.93 billion in 2024 and is anticipated to reach USD 3.54 billion in 2025 and USD 16.11 billion by 2033, growing at a ...



Phase change Materials Market Size & Growth Report, ...

The phase change materials market is valued at USD 690.9 million in 2024 and is expected to grow at a 15.4% compound annual growth rate from 2025 to 2032.



Phase Change Materials Market Size, Share, Analysis, Growth, 2032

The Global Phase Change Materials Market Size Was Worth USD 2,345 Million in 2023 and Is Expected To Reach USD 7,330 Million by 2032, CAGR of 13.5%.



Phase Change Materials Market Size And Share Report 2025

Phase-change materials refer to a class of substances that, while changing from one physical state to another, such as from a solid to a liquid, absorb or release significant amounts of latent heat.

Phase Change Material Market Size & Share Report, 2032

Q1: What is the current market size and growth potential of the phase change material market? The phase change material market was valued at USD 1,370.79 million in 2023 and is expected to grow ...



Phase Change Material Market Size, Share & Forecast , Report 2030

The phase change material market is projected to register a CAGR of 18.19% to reach USD 6,437.62 million by 2030. The market was valued at USD 1,448.40 million in 2021



Advanced Phase Change Material Market Size & Forecast, 2032

The global advanced phase change material market is projected to hit at US\$1.2 Bn in 2025 and US\$4.5 Bn by 2032, growing at a 20% CAGR during 2025-2032



System Performance and Economic Analysis of a Phase Change Material

Download the full PDF of System Performance and Economic Analysis of a Phase Change. Includes comprehensive summary, implementation details, and key takeaways. Jianwu Zhang

Phase Change Materials Market Size, Share & Trends 2025-2035

What trends will shape this market in the coming years? The Phase Change Materials Market accounted for USD 2.38 Billion in 2024 and is expected to reach USD 15.4 Billion by 2035, growing at a CAGR ...



Phase Change Materials Market Size, Share & Trends 2025-2035

Phase change materials (PCMs) that the market is centered on work by altering their phase and creating or releasing thermal energy, normally taking the solid-liquid phase switch. These materials are ...



Phase Change Materials Market Size, Share & Trends ...

The global phase change materials market was estimated at USD 2.6 billion in 2024. The market is expected to grow from USD 3 billion in 2025 to USD 7.9 ...



Phase Change Materials Market Size, Share, Growth Analysis, 2030

Phase change material absorbs and releases heat by liquefying and solidifying at set temperatures. The natural latent heat property of phase change material helps maintain the structure's temperature and ...

Phase Change Material Market Size, Share & Forecast ...

The phase change material market is projected to register a CAGR of 18.19% to reach USD 6,437.62 million by 2030. The market was valued at USD 1,448.40 ...



Phase Change Material Market Size, Share & Industry Forecast 2035

The global phase change material market size surpassed USD 1.38 billion in 2025 and is projected to grow at a CAGR of around 18.5%, reaching USD 7.53 billion revenue by 2035, impelled ...



Phase Change Materials Market Size & Share Analysis

Demand stems from stricter building-energy codes, cold-chain logistics expansion, and electric-vehicle battery cooling, pushing the Phase Change Material market size toward USD 2.41 ...



Phase Change Materials Market

The study of the global phase change materials market is intended to present a comprehensive picture of its prevailing dynamics, growth pattern, and future outlook. The key purposes of this study are to ...

Phase Change Material (PCM) Market

The global Phase Change Material (PCM) market size is projected to experience significant growth, expanding from USD 1.5 billion in 2023 to an estimated USD 4.5 billion by 2032, according to a ...



Phase Change Materials Market, Industry Size ...

The growth of the phase change materials market is driven by the rising demand for energy-efficient solutions in buildings, packaging, and electronics. Increasing ...



Solar Market Insight Report Q3 2025 - SEIA

Strong demand for new energy supply and rising power prices strengthen the market fundamentals for new solar projects in the long term. Overall, our low case is 18% lower than our ...



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