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Global PI Film for New Energy Vehicle Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PI Film for New Energy Vehicle Batteries market size is expected to reach $ 12817 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

PI film for new energy vehicle batteries is a thin film made of polyimide (PI) material, possessing excellent thermal stability, electrical insulation, and mechanical strength. This film plays a crucial role in battery packaging and isolation applications, effectively preventing short circuits and improving battery safety. Due to its high-temperature resistance and excellent chemical stability, PI film is widely used in lithium-ion batteries and other high-performance battery systems, ensuring their reliability and performance under high-temperature and harsh environments.

Upstream applications include dianhydride/diamine monomers and solvents (NMP, etc.), additives, and supporting materials such as copper/aluminum foil. Downstream applications are in the power battery and PACK industry chain (square/soft-pack/cylindrical), where PI film is used for cell tab/shell insulation, module thermal insulation, wiring harness and busbar insulation, high-temperature flame-retardant protection, and localized reinforcement.

In 2025, the global market price for PI film for new energy vehicle batteries was $50 per square meter, with sales of approximately 162.75 million square meters and a global annual production capacity of 180 million square meters. The industry profit margin was 20-25%.

This report studies the global PI Film for New Energy Vehicle Batteries production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for PI Film for New Energy Vehicle Batteries and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PI Film for New Energy Vehicle Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PI Film for New Energy Vehicle Batteries total production and demand, 2021-2032, (K Sqm)

Global PI Film for New Energy Vehicle Batteries total production value, 2021-2032, (USD Million)

Global PI Film for New Energy Vehicle Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global PI Film for New Energy Vehicle Batteries consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: PI Film for New Energy Vehicle Batteries domestic production, consumption, key domestic manufacturers and share

Global PI Film for New Energy Vehicle Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global PI Film for New Energy Vehicle Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global PI Film for New Energy Vehicle Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global PI Film for New Energy Vehicle Batteries market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DuPont, Kaneka, Taimide Tech, Rayitek, PI Advanced Materials, Ube Industries, Guilin Electrical Equipment Scientific

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Research Institute, Zhuzhou Times New Material Technology, Wuxi Gao Tuo, ZTT, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PI Film for New Energy Vehicle Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) and average price (US$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PI Film for New Energy Vehicle Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PI Film for New Energy Vehicle Batteries Market, Segmentation by Type:

Pure PI Film

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PI Composite Material

Global PI Film for New Energy Vehicle Batteries Market, Segmentation by Material Systems:

Conventional Aromatic PI

Flame-Retardant Modified PI

Ceramic-Filled PI

Global PI Film for New Energy Vehicle Batteries Market, Segmentation by Thickness:

Ultra-thin: ?12.5 ?m

Thin: 12.5–25 ?m

Medium: 25–50 ?m

Thick: 50–125 ?m

Other

Global PI Film for New Energy Vehicle Batteries Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

DuPont

Kaneka

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Taimide Tech

Rayitek

PI Advanced Materials

Ube Industries

Guilin Electrical Equipment Scientific Research Institute

Zhuzhou Times New Material Technology

Wuxi Gao Tuo

ZTT

Key Questions Answered:

1. How big is the global PI Film for New Energy Vehicle Batteries market?
2. What is the demand of the global PI Film for New Energy Vehicle Batteries market?
3. What is the year over year growth of the global PI Film for New Energy Vehicle Batteries market?
4. What is the production and production value of the global PI Film for New Energy Vehicle Batteries market?
5. Who are the key producers in the global PI Film for New Energy Vehicle Batteries market?
6. What are the growth factors driving the market demand?

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