

Global PI Film for New Energy Vehicle Batteries Market Growth 2026-2032

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Abstracts

The global PI Film for New Energy Vehicle Batteries market size is predicted to grow from US\$ 7961 million in 2025 to US\$ 12456 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 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%.

United States market for PI Film for New Energy Vehicle Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026

through 2032.

China market for PI Film for New Energy Vehicle Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PI Film for New Energy Vehicle Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PI Film for New Energy Vehicle Batteries players cover DuPont, Kaneka, Taimide Tech, Rayitek, PI Advanced Materials, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "PI Film for New Energy Vehicle Batteries Industry Forecast" looks at past sales and reviews total world PI Film for New Energy Vehicle Batteries sales in 2025, providing a comprehensive analysis by region and market sector of projected PI Film for New Energy Vehicle Batteries sales for 2026 through 2032. With PI Film for New Energy Vehicle Batteries sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PI Film for New Energy Vehicle Batteries industry.

This Insight Report provides a comprehensive analysis of the global PI Film for New Energy Vehicle Batteries 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 PI Film for New Energy Vehicle Batteries portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PI Film for New Energy Vehicle Batteries market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PI Film for New Energy Vehicle Batteries 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 PI Film for New Energy Vehicle Batteries.

This report presents a comprehensive overview, market shares, and growth

opportunities of PI Film for New Energy Vehicle Batteries market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pure PI Film

PI Composite Material

Segmentation by Material Systems:

Conventional Aromatic PI

Flame-Retardant Modified PI

Ceramic-Filled PI

Segmentation by Thickness:

Ultra-thin: $<12.5 \mu\text{m}$

Thin: $12.5\text{--}25 \mu\text{m}$

Medium: $25\text{--}50 \mu\text{m}$

Thick: $50\text{--}125 \mu\text{m}$

Other

Segmentation by Application:

BEV

PHEV

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.

DuPont

Kaneka

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 Addressed in this Report

What is the 10-year outlook for the global PI Film for New Energy Vehicle Batteries

market?

What factors are driving PI Film for New Energy Vehicle Batteries market growth, globally and by region?

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

How do PI Film for New Energy Vehicle Batteries market opportunities vary by end market size?

How does PI Film for New Energy Vehicle Batteries break out by Type, by Application?

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