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Global PI Film for New Energy Vehicle Batteries 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 PI Film for New Energy Vehicle Batteries market size was valued at US$ 8374 million in 2025 and is forecast to a readjusted size of US$ 12817 million by 2032 with a CAGR of 6.2% during review period.

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%.

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This report is a detailed and comprehensive analysis for global PI Film for New Energy Vehicle Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 PI Film for New Energy Vehicle Batteries market size and forecasts, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global PI Film for New Energy Vehicle Batteries 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 PI Film for New Energy Vehicle Batteries market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global PI Film for New Energy Vehicle Batteries 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 PI Film for New Energy Vehicle Batteries
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 PI Film for New Energy Vehicle Batteries 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 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, etc.

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

Market Segmentation

PI Film for New Energy Vehicle Batteries market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Pure Pl Film

Pl Composite Material

Market segment by Material Systems

Conventional Aromatic PI

Flame-Retardant Modified PI

Ceramic-Filled PI

Market segment by Thickness

Ultra-thin: ?12.5 ?m

Thin: 12.5–25 ?m

Medium: 25–50 ?m

Thick: 50–125 ?m

Other

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Market segment by Application

BEV

PHEV

Major players covered

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

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:

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Chapter 1, to describe PI Film for New Energy Vehicle Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PI Film for New Energy Vehicle Batteries, with price, sales quantity, revenue, and global market share of PI Film for New Energy Vehicle Batteries from 2021 to 2026.

Chapter 3, the PI Film for New Energy Vehicle Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PI Film for New Energy Vehicle Batteries 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 Type and by Application, with sales market share and growth rate by Type, 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 PI Film for New Energy Vehicle Batteries market forecast, by regions, by Type, 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 PI Film for New Energy Vehicle Batteries.

Chapter 14 and 15, to describe PI Film for New Energy Vehicle Batteries sales channel, distributors, customers, research findings and conclusion.

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