

Global Polyimide Film for Batteries Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3846573696DEN.html>

Date: July 2026

Pages: 143

Price: US\$ 4,480.00 (Single User License)

ID: G3846573696DEN

Abstracts

The global Polyimide Film for Batteries market size is expected to reach \$ 324 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Battery-grade polyimide film is a high-temperature-resistant electrical insulating material based on a polyimide substrate designed for use in lithium-ion batteries, energy storage systems, and consumer electronics batteries; it encompasses insulating films, adhesive-coated PI tapes, and die-cut insulating components. This material is typically employed for insulating battery tabs, protecting cell termination areas, wrapping wound cores or individual cells, isolating high-voltage sections within battery modules, and serving as high-temperature masking during the battery manufacturing process. Its core characteristics include excellent heat resistance, high dielectric strength, and strong dimensional stability, as well as a certain degree of resistance to electrolytes, acids, bases, and automated assembly processes. In 2025, the global production volume of battery-grade polyimide film is projected to reach approximately 5.6 K MT.

Continuous expansion of electric vehicle and energy storage batteries is pushing internal battery insulation materials from standard PET tapes and protective films toward functional films with better heat resistance, flame retardancy and electrolyte resistance. Battery-use polyimide film is well suited to tabs, termination areas and local high-temperature zones. In fast-charging cells, large cylindrical cells, prismatic cells and pouch cells, the material must meet requirements for automated application, thermal endurance, insulation performance and low extractables.

On the supply side, this market is not the same as the generic PI base-film market; competition is centered more on coating, lamination, slitting, die-cutting and customer qualification capability. International suppliers usually have advantages in material

platforms, automotive qualification and global customer service, while Chinese suppliers are more flexible in lithium-battery supply chain integration, fast sampling, cost control and customized die-cut delivery. As battery manufacturers raise requirements for yield, traceability and automation efficiency, suppliers with stable clean coating capability, electrolyte-resistant adhesive systems and batch consistency are more likely to secure long-term orders.

In the coming years, growth will mainly come from safer power-battery designs, higher-voltage energy storage systems, thinner consumer batteries and upgraded thermal-runaway protection in battery packs. The market will still face pressure from PI base-film costs, battery material cost reduction, substitution from PET and PP-based films, and long customer qualification cycles. However, in high-temperature, high-voltage and high-reliability applications, the performance position of PI materials should support growth above that of ordinary industrial tapes.'

This report studies the global Polyimide Film for Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polyimide Film for 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 Polyimide Film for Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polyimide Film for Batteries total production and demand, 2021-2032, (Kilotons)

Global Polyimide Film for Batteries total production value, 2021-2032, (USD Million)

Global Polyimide Film for Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Polyimide Film for Batteries consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Polyimide Film for Batteries domestic production, consumption, key domestic manufacturers and share

Global Polyimide Film for Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Polyimide Film for Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Polyimide Film for Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Polyimide Film for 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 Nitto Denko, Teraoka Seisakusho, 3M, Sidike New Materials, Yongguan New Materials, Tongli Technology, Jantape, Shenyuan New Materials, Dongyan Electronic Materials, Anhui Kefu New Materials, 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 Polyimide Film for Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Polyimide Film for Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyimide Film for Batteries Market, Segmentation by Type:

Termination Tape

Tab Tape

Module Fixing Tape

Protective Film Tape

Gold Finger Tape

Other

Global Polyimide Film for Batteries Market, Segmentation by Feature:

Silicone-based Adhesives

Acrylic-based Adhesives

Global Polyimide Film for Batteries Market, Segmentation by Channel:

Direct Sales

Distribution

Global Polyimide Film for Batteries Market, Segmentation by Application:

Consumer Batteries

Power Batteries

Energy Storage Batteries

Companies Profiled:

Nitto Denko

Teraoka Seisakusho

3M

Sidike New Materials

Yongguan New Materials

Tongli Technology

Jantape

Shenyuan New Materials

Dongyan Electronic Materials

Anhui Kefu New Materials

Xunmei Electronic Technology

Changzhou Baishunte New Energy

Changzhou Bailu Electrical Appliances

Dongguan Fang'en Electronic Materials

Dongguan Aozhong New Materials

Meixin New Materials

Key Questions Answered:

1. How big is the global Polyimide Film for Batteries market?
2. What is the demand of the global Polyimide Film for Batteries market?
3. What is the year over year growth of the global Polyimide Film for Batteries market?

4. What is the production and production value of the global Polyimide Film for Batteries market?
5. Who are the key producers in the global Polyimide Film for Batteries market?
6. What are the growth factors driving the market demand?

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