

TPU Films For EV Battery Protection Market Size, Share & Trends Analysis Report By Type (Polyester TPU Films, Polyether TPU Films, Polycaprolactone TPU Films), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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TPU Films For EV Battery Protection Market Growth & Trends

The global TPU films for EV battery protection market size is anticipated to reach USD 23.5 million by 2030 and is anticipated to expand at a CAGR of 6.7% from 2025 to 2030, according to a new report by Grand View Research, Inc. The TPU films market for electric vehicle battery protection is experiencing growth driven primarily by the global surge in EV adoption. As governments worldwide implement stricter emissions regulations and offer incentives for electric vehicle purchases, automakers are ramping up EV production, consequently increasing demand for high-performance battery protection materials. TPU films are particularly valued in this application due to their excellent combination of mechanical strength, chemical resistance, flexibility, and thermal stability, all critical properties for safeguarding sensitive battery components in demanding automotive environments.

Safety requirements represent another significant market driver, as battery thermal runaway events have highlighted the need for advanced protective materials. Major EV manufacturers such as Tesla, BYD, and Volkswagen implement multilayer battery protection systems where TPU films serve as crucial barrier components. For example, some contemporary designs utilize specialty TPU films with flame-retardant additives that can withstand temperatures exceeding 150°C while maintaining structural integrity,



thereby containing potential thermal events and preventing cascade failures across battery modules.

Technological advancements in TPU formulations are expanding material capabilities and market applications. Innovations include TPU films with enhanced electrical insulation properties, improved chemical resistance against electrolyte leakage, and reduced thickness profiles that contribute to overall battery weight reduction without compromising protection.

Sustainability concerns are increasingly influencing this market as EV manufacturers seek to enhance their environmental credentials beyond zero-emission driving. TPU films that incorporate bio-based content or offer recyclability at end-of-life are gaining traction. Bio-based TPU films derived from plant sources that maintain performance specifications while reducing the carbon footprint of battery components. This trend aligns with broader industry movements toward circular economy principles and reflects growing consumer preference for sustainable transportation solutions throughout the product lifecycle, from manufacturing to eventual recycling.

TPU Films For EV Battery Protection Market Report Highlights

The polyester TPU films segment accounted for the largest share of over 49.0% of the market in 2024.

The polyether TPU films segment is expected to grow at the fastest CAGR of 7.1% during the forecast period.

Based on application, the battery insulation segment dominated the market in 2024 by accounting for the largest revenue share of over 41.0% and is expected to grow at the fastest CAGR of 6.7% over the forecast period of 2025 to 2030.

In 2024, the Asia Pacific region led the market, capturing the largest revenue share of over 38.0%, and is expected to expand at the highest CAGR of 7.4% throughout the forecast period.

Covestro AG, DUNMORE, AMERICAN POLYFILM, INC., Plastic Film Corporation of America, Wiman Corporation, RTP Company, San Fang Chemical Industry Co., Ltd., Shanghai Metal Corporation, Adhtapes, and Singhal Industries are some of the key players in the market.



Companies Mentioned

Covestro AG
DUNMORE
AMERICAN POLYFILM, INC.
Plastic Film Corporation of America
Wiman Corporation
RTP Company
San Fang Chemical Industry Co., Ltd.
Shanghai Metal Corporation
Adhtapes
Singhal Industries



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