

Capacitor Films Market Size, Share & Trends Analysis Report By Dielectric Material (PP, PET), By Application (Automotive, Consumer Electronics, Renewable Energy, Industrial Equipment), By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/C16BA33F9C77EN.html>

Date: May 2025

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: C16BA33F9C77EN

Abstracts

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Capacitor Films Market Growth & Trends

The global capacitor films market size is anticipated to reach USD 4.62 billion by 2030 and is anticipated to expand at a CAGR of 5.40% during the forecast period, according to a new report by Grand View Research, Inc. The market is a critical segment of the global electronic components industry, underpinned by the expanding demand for compact, high-efficiency energy storage solutions.

Capacitor films, primarily made from dielectric polymers such as polypropylene (PP) and polyethylene terephthalate (PET), are fundamental in enhancing the performance of film capacitors used across sectors, including consumer electronics, automotive, industrial automation, and renewable energy. Their unique combination of thermal stability, high insulation resistance, and self-healing capability makes them indispensable in applications requiring long operational lifespans and consistent voltage endurance.

The accelerating shift toward electrification and energy-efficient technologies is a major driver of the market growth. As electric vehicles, smart grids, and high-frequency power conversion systems gain global momentum, the need for reliable, lightweight, and thermally robust capacitors has surged. Capacitor films outperform traditional

alternatives such as electrolytic and ceramic materials in high-stress environments, making them a preferred choice in power electronics.

Continuous innovation in polymer film extrusion, metallization, and dielectric enhancement has led to the creation of specialized capacitor films designed for ultra-thin configurations and high-temperature endurance, supporting advanced applications in EVs, aerospace systems, and renewable energy infrastructure.

Furthermore, microbial conversion, gas fermentation, and biomass feedstock optimization advancements have enabled scalable, commercially viable production routes. This combination of performance, policy alignment, and climate benefit makes capacitor films an increasingly strategic material for industries prioritizing long-term resilience and sustainable growth.

The market players focus on various strategic initiatives such as mergers, acquisitions, and collaborations. For instance, in November 2025, Vishay Intertechnology, a leading global manufacturer of electronic components, acquired Birkelbach Kondensatortechnik GmbH, a German capacitor film manufacturer, for about USD 18.5 million.

Capacitor Films Market Report Highlights

Based on the dielectric material, PP accounted for the largest share of 53.50% market size in 2024.

Based on end use, consumer electronics accounted for the largest share of 34.26% market size in 2024.

Asia Pacific dominated the market. Rising government-led infrastructure electrification and 5G rollout in countries like India, Vietnam, and Indonesia fuel demand for capacitor films in telecom and power distribution systems.

China was the leading capacitor films industry in the Asia Pacific region and captured around 65% of the revenue market share in 2024.

Companies Mentioned

JPFL Films

Cosmo Films

Toray Industries
Mitsubishi Shindoh Co., Ltd.
TDK Corporation
Panasonic Corporation
AVX Corporation
Terichem Tervakoski, a.s.
Xiamen Hongfa Electroacoustic Co.,Ltd.

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