

Global High-temperature Automotive-grade Film Capacitor Market Growth 2026-2032

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Abstracts

The global High-temperature Automotive-grade Film Capacitor market size is predicted to grow from US\$ 1027 million in 2025 to US\$ 1852 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

High-temperature Automotive-grade Film Capacitor is a high-reliability automotive film capacitor designed for high-temperature and high-voltage vehicle electronic systems, mainly covering DC-link film capacitors, EMI suppression film capacitors, and snubber film capacitors used in automotive power conversion and electronic control circuits. Through metallized polypropylene dielectric structures, the product provides stable voltage smoothing, ripple current absorption, electromagnetic interference suppression, and transient voltage protection under harsh automotive operating conditions. Compared with conventional automotive capacitors, it offers stronger heat resistance, better long-term capacitance stability, and improved reliability in continuous high-temperature environments. Its advantages include strong interference suppression capability, long service life, high safety reliability, low dielectric loss, and stable capacitance performance. In 2025, production was 175 million units and the average price was USD 6 per unit. The industry's capacity utilization rate in 2025 was about 80% and the average gross margin was around 30%. Upstream, the core inputs for High-temperature Automotive-grade Film Capacitor are polypropylene base film, especially BOPP film, and aluminum metallized coating materials, with representative suppliers including Toray Industries, Toyobo, Bollor?, Steinerfilm, Anhui Tongfeng Electronics, Xiamen Faratronic, and Chalco providing key film and metal material support. The midstream segment focuses on base film pretreatment, vacuum metallization, precision winding, thermal pressing, spraying, encapsulation, aging, automotive-grade reliability testing, and high-temperature performance validation, which determine self-healing capability, insulation strength, capacitance stability, and long-

term operating reliability. Downstream, High-temperature Automotive-grade Film Capacitor is mainly used in automotive applications, with representative customers including Tesla, Toyota, Volkswagen, BYD, Hyundai Motor, BMW, and Mercedes-Benz.

High-temperature Automotive-grade Film Capacitor will gain more use as electric vehicles place higher thermal and electrical stress on DC-link, EMI suppression, and snubber capacitor positions. In traction inverters, on-board chargers, DC-DC converters, and electric drive control circuits, it helps stabilize voltage, suppress interference, absorb transient energy, and maintain capacitance stability under high-temperature conditions. Future development will be driven by 800V platforms, higher power density modules, fast-charging systems, and stricter automotive reliability requirements, with product upgrades focusing on heat endurance, low loss, long life, and stable operation in compact power electronics.

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

This Insight Report provides a comprehensive analysis of the global High-temperature Automotive-grade Film Capacitor 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 High-temperature Automotive-grade Film Capacitor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-temperature Automotive-grade Film Capacitor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-temperature Automotive-grade Film Capacitor 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 High-temperature Automotive-grade Film Capacitor.

This report presents a comprehensive overview, market shares, and growth opportunities of High-temperature Automotive-grade Film Capacitor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

DC-Link Film Capacitor

EMI Suppression Film Capacitor

Snubber Film Capacitor

Others

Segmentation by Capacitance Range:

Capacitance

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global High-temperature Automotive-grade Film Capacitor Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for High-temperature Automotive-grade Film Capacitor by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for High-temperature Automotive-grade Film Capacitor by Country/Region, 2021, 2025 & 2032

2.2 High-temperature Automotive-grade Film Capacitor Segment by Type

2.2.1 DC-Link Film Capacitor

2.2.2 EMI Suppression Film Capacitor

2.2.3 Snubber Film Capacitor

2.2.4 Others

2.2.5 High-temperature Automotive-grade Film Capacitor Sales by Type

2.2.5.1 Global High-temperature Automotive-grade Film Capacitor Sales Market Share by Type (2021-2026)

2.2.5.2 Global High-temperature Automotive-grade Film Capacitor Revenue and Market Share by Type (2021-2026)

2.2.5.3 Global High-temperature Automotive-grade Film Capacitor Sale Price by Type (2021-2026)

2.3 High-temperature Automotive-grade Film Capacitor Segment by Capacitance Range

2.3.1 Capacitance

List Of Tables

LIST OF TABLES

Table 1. High-temperature Automotive-grade Film Capacitor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High-temperature Automotive-grade Film Capacitor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of DC-Link Film Capacitor

Table 4. Major Players of EMI Suppression Film Capacitor

Table 5. Major Players of Snubber Film Capacitor

Table 6. Major Players of Others

Table 7. Global High-temperature Automotive-grade Film Capacitor Sales by Type (2021-2026) & (K Units)

Table 8. Global High-temperature Automotive-grade Film Capacitor Sales Market Share by Type (2021-2026)

Table 9. Global High-temperature Automotive-grade Film Capacitor Revenue by Type (2021-2026) & (\$ million)

Table 10. Global High-temperature Automotive-grade Film Capacitor Revenue Market Share by Type (2021-2026)

Table 11. Global High-temperature Automotive-grade Film Capacitor Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Capacitance

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High-temperature Automotive-grade Film Capacitor
- Figure 2. High-temperature Automotive-grade Film Capacitor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High-temperature Automotive-grade Film Capacitor Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global High-temperature Automotive-grade Film Capacitor Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High-temperature Automotive-grade Film Capacitor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High-temperature Automotive-grade Film Capacitor Sales Market Share by Country/Region (2025)
- Figure 10. High-temperature Automotive-grade Film Capacitor Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of DC-Link Film Capacitor
- Figure 12. Product Picture of EMI Suppression Film Capacitor
- Figure 13. Product Picture of Snubber Film Capacitor
- Figure 14. Product Picture of Others
- Figure 15. Global High-temperature Automotive-grade Film Capacitor Sales Market Share by Type in 2026
- Figure 16. Global High-temperature Automotive-grade Film Capacitor Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Capacitance

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