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Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G0F28F559113EN.html
Date: January 2026
Pages: 148
Price: US$ 4,480.00 (Single User License)
ID: G0F28F559113EN

Abstracts

The global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market size is expected to reach $ 5052 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Flexible Printed Circuit Boards (FPCs) for Electric Vehicles are polyimide- or PET-based flexible circuit boards used in EV battery systems, power electronics and in-vehicle electronics. They replace traditional wiring harnesses and some rigid PCBs in high-density, space-constrained, vibration-intensive environments such as battery modules, BMS, inverters, charging systems, sensors, lighting and infotainment. They offer light weight, high reliability, design flexibility and simplified assembly, and must meet automotive-grade standards (HV isolation, heat, vibration, humidity, lifetime). In 2025, global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production reached approximately 12954.7 K Sqm. Global production capacity in 2025 is approximately 17000 K Sqm. The main raw materials include PI film (Polyimide Film, represented by manufacturers: DuPont, Kaneka, UBE); electrolytic copper foil/rolled copper foil (ED/RA Copper Foil, represented by manufacturers: JX, Furukawa, Fukuda, Jiayuan, Nord); and coverlay/adhesive materials. Downstream applications and customers include: Tier-1 automotive electronics manufacturers (Bosch, Continental, ZF, Denso); and OEM vehicle manufacturers (Volkswagen Group, Toyota, Tesla, and BYD), etc.

Flexible Printed Circuit Boards (FPCs) for Electric Vehicles are rapidly shifting from a consumer-electronics derivative to a strategic interconnect platform underpinning EV energy systems, sensing, and cabin electronics. Structural demand is driven by rising BEV penetration, electronic content per vehicle, wiring-harness weight reduction, higher BMS sensing points, curved interior displays, and expanding ADAS sensor density. As

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a result, FPC adoption is accelerating in battery-module/BMS measurement lines, power-electronics control units, automotive camera and radar modules, intelligent lighting, infotainment and large-format displays.

This report studies the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flexible Printed Circuit Boards (FPCs) for Electric Vehicles 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 Flexible Printed Circuit Boards (FPCs) for Electric Vehicles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles total production and demand, 2021-2032, (K Sqm)

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles total production value, 2021-2032, (USD Million)

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Flexible Printed Circuit Boards (FPCs) for Electric Vehicles domestic production, consumption, key domestic manufacturers and share

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

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Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles 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 Mektec Corporation, Sumitomo Electric Printed Circuits, Fujikura, Suzhou Dongshan Precision, AT&S, Avary, Kinwong Electronic, Shennan Circuits, ZDT, Flexium, 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 Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) and average price (US$/Sq m) 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 Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, Segmentation by Type:

Single-sided Circuit

Double-sided Circuit

Multi-layer Circuit

Rigid-Flex Circuit

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, Segmentation by Material System:

Polyimide-based FPC

High-temperature PI FPC

High-speed/High-frequency FPC

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, Segmentation by Electrical Performance:

Standard Signal FPC

High-speed Signal FPC

High-current FPC

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, Segmentation by Application System:

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ADAS

Intelligent Cockpit

Powertrain

Body Electronic Systems

Others

Global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles Market, Segmentation by Application:

Passenger

Commercial

Companies Profiled:

Mektec Corporation

Sumitomo Electric Printed Circuits

Fujikura

Suzhou Dongshan Precision

AT&S

Avary

Kinwong Electronic

Shennan Circuits

ZDT

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Flexium

Victory Giant Technology

SI FLEX

Bhflex

Interflex

ICHIA

Career Technology

AKM

Key Questions Answered:

1. How big is the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market?
2. What is the demand of the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market?
3. What is the year over year growth of the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market?
4. What is the production and production value of the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market?
5. Who are the key producers in the global Flexible Printed Circuit Boards (FPCs) for Electric Vehicles market?
6. What are the growth factors driving the market demand?

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