

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market size is expected to reach \$ 4650 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Automotive LTPS (Low-Temperature Poly-Silicon) LCD is a high-performance vehicle display technology that combines rapid response times, high resolution, and energy efficiency, ensuring clear and reliable visual output in dashboards and center consoles under variable automotive conditions. In 2025, production reached 52.83 million units with an average price of 53 USD/unit. The upstream mainly involves LTPS array glass substrates and liquid crystal materials supplied by companies such as Corning, Merck, AGC, Samsung SDI, and LG Chem. The midstream focuses on panel fabrication, module assembly, and quality testing, while downstream applications target automotive instrument clusters and infotainment systems, including Tesla, BMW, and BYD. In 2025, production capacity utilization reached 70% with an industry-average gross margin of 20%.

Automotive LTPS (Low-Temperature Poly-Silicon) LCD continues to play a critical role in vehicle display systems, offering fast response times and high resolution that support increasingly complex instrument clusters and infotainment interfaces. Its adoption is influenced by demand for durable, energy-efficient panels capable of operating reliably under temperature fluctuations and vibration conditions. As vehicles integrate advanced driver-assistance systems and connected features, LTPS LCDs provide stable visual performance and precise color rendering, particularly for dashboards and center consoles. OEMs increasingly prioritize displays that balance clarity, responsiveness, and power efficiency, shaping investment and production strategies toward high-quality

automotive panels.

This report studies the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive LTPS (Low-Temperature Poly-Silicon) LCD 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 Automotive LTPS (Low-Temperature Poly-Silicon) LCD that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD total production and demand, 2021-2032, (K Units)

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD total production value, 2021-2032, (USD Million)

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD domestic production, consumption, key domestic manufacturers and share

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD 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 BOE Technology, Tianma Microelectronics, AU Optronics, Innolux Corporation, Samsung Display, LG Display, CSOT (TCL China Star Optoelectronics), HKC Corporation, JDI, IVO Display, 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 Automotive LTPS (Low-Temperature Poly-Silicon) LCD market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market, Segmentation by Type:

?15'

15'-20'

Others

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market, Segmentation by Driving Method:

Single-Point Driving

Multi-Point Driving

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market, Segmentation by Resolution:

HD

2K

Others

Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

BOE Technology

Tianma Microelectronics

AU Optronics

Innolux Corporation

Samsung Display

LG Display

CSOT (TCL China Star Optoelectronics)

HKC Corporation

JDI

IVO Display

Key Questions Answered:

1. How big is the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market?
2. What is the demand of the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market?
3. What is the year over year growth of the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market?
4. What is the production and production value of the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market?
5. Who are the key producers in the global Automotive LTPS (Low-Temperature Poly-Silicon) LCD market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Introduction
- 1.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Supply & Forecast
 - 1.2.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
 - 1.2.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Pricing Trends (2021-2032)
- 1.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Region (Based on Production Site)
 - 1.3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Region (2021-2032)
 - 1.3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Region (2021-2032)
 - 1.3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Region (2021-2032)
 - 1.3.4 North America Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
 - 1.3.5 Europe Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
 - 1.3.6 China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
 - 1.3.7 Japan Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
 - 1.3.8 South Korea Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Demand (2021-2032)
- 2.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption by

Region

2.2.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption by Region (2021-2026)

2.2.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Forecast by Region (2027-2032)

2.3 United States Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.4 China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.5 Europe Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.6 Japan Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.7 South Korea Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.8 ASEAN Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

2.9 India Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Manufacturer (2021-2026)

3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Manufacturer (2021-2026)

3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Manufacturer (2021-2026)

3.4 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Automotive LTPS (Low-Temperature Poly-Silicon) LCD in 2025

3.5.3 Global Concentration Ratios (CR8) for Automotive LTPS (Low-Temperature Poly-Silicon) LCD in 2025

3.6 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Overall Company Footprint Analysis

- 3.6.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Region Footprint
- 3.6.2 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Company Product Type Footprint
- 3.6.3 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Comparison
 - 4.1.1 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Comparison
 - 4.2.1 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Comparison
 - 4.3.1 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-

Silicon) LCD Production (2021-2026)

4.5 China Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers and Market Share

4.5.1 China Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2026)

4.6 Rest of World Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 ?15?

5.2.2 15?-20?

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Type (2021-2032)

5.3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Type (2021-2032)

5.3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DRIVING METHOD

6.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Size Overview by Driving Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Driving Method

6.2.1 Single-Point Driving

6.2.2 Multi-Point Driving

6.3 Market Segment by Driving Method

6.3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Driving Method (2021-2032)

6.3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Driving Method (2021-2032)

6.3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Driving Method (2021-2032)

7 MARKET ANALYSIS BY RESOLUTION

7.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Size Overview by Resolution: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Resolution

7.2.1 HD

7.2.2 2K

7.2.3 Others

7.3 Market Segment by Resolution

7.3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Resolution (2021-2032)

7.3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Resolution (2021-2032)

7.3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Resolution (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Cars

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Application (2021-2032)

8.3.2 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Application (2021-2032)

8.3.3 World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by

Application (2021-2032)

9 COMPANY PROFILES

9.1 BOE Technology

9.1.1 BOE Technology Details

9.1.2 BOE Technology Major Business

9.1.3 BOE Technology Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.1.4 BOE Technology Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 BOE Technology Recent Developments/Updates

9.1.6 BOE Technology Competitive Strengths & Weaknesses

9.2 Tianma Microelectronics

9.2.1 Tianma Microelectronics Details

9.2.2 Tianma Microelectronics Major Business

9.2.3 Tianma Microelectronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.2.4 Tianma Microelectronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Tianma Microelectronics Recent Developments/Updates

9.2.6 Tianma Microelectronics Competitive Strengths & Weaknesses

9.3 AU Optronics

9.3.1 AU Optronics Details

9.3.2 AU Optronics Major Business

9.3.3 AU Optronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.3.4 AU Optronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AU Optronics Recent Developments/Updates

9.3.6 AU Optronics Competitive Strengths & Weaknesses

9.4 Innolux Corporation

9.4.1 Innolux Corporation Details

9.4.2 Innolux Corporation Major Business

9.4.3 Innolux Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.4.4 Innolux Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Innolux Corporation Recent Developments/Updates

9.4.6 Innolux Corporation Competitive Strengths & Weaknesses

9.5 Samsung Display

9.5.1 Samsung Display Details

9.5.2 Samsung Display Major Business

9.5.3 Samsung Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.5.4 Samsung Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Samsung Display Recent Developments/Updates

9.5.6 Samsung Display Competitive Strengths & Weaknesses

9.6 LG Display

9.6.1 LG Display Details

9.6.2 LG Display Major Business

9.6.3 LG Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.6.4 LG Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 LG Display Recent Developments/Updates

9.6.6 LG Display Competitive Strengths & Weaknesses

9.7 CSOT (TCL China Star Optoelectronics)

9.7.1 CSOT (TCL China Star Optoelectronics) Details

9.7.2 CSOT (TCL China Star Optoelectronics) Major Business

9.7.3 CSOT (TCL China Star Optoelectronics) Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.7.4 CSOT (TCL China Star Optoelectronics) Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 CSOT (TCL China Star Optoelectronics) Recent Developments/Updates

9.7.6 CSOT (TCL China Star Optoelectronics) Competitive Strengths & Weaknesses

9.8 HKC Corporation

9.8.1 HKC Corporation Details

9.8.2 HKC Corporation Major Business

9.8.3 HKC Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.8.4 HKC Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 HKC Corporation Recent Developments/Updates

9.8.6 HKC Corporation Competitive Strengths & Weaknesses

9.9 JDI

9.9.1 JDI Details

9.9.2 JDI Major Business

9.9.3 JDI Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.9.4 JDI Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 JDI Recent Developments/Updates

9.9.6 JDI Competitive Strengths & Weaknesses

9.10 IVO Display

9.10.1 IVO Display Details

9.10.2 IVO Display Major Business

9.10.3 IVO Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

9.10.4 IVO Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 IVO Display Recent Developments/Updates

9.10.6 IVO Display Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Industry Chain

10.2 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Upstream Analysis

10.2.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Core Raw Materials

10.2.2 Main Manufacturers of Automotive LTPS (Low-Temperature Poly-Silicon) LCD Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Mode

10.6 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Procurement Model

10.7 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Industry Sales Model and Sales Channels

10.7.1 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Sales Model

10.7.2 Automotive LTPS (Low-Temperature Poly-Silicon) LCD Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Region (2021-2026)

Table 5. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Region (2027-2032)

Table 6. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Region (2021-2026) & (K Units)

Table 7. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Region (2027-2032) & (K Units)

Table 8. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Region (2021-2026)

Table 9. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Region (2027-2032)

Table 10. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Major Market Trends

Table 13. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive LTPS (Low-Temperature Poly-Silicon) LCD Producers in 2025

Table 18. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive LTPS (Low-Temperature Poly-Silicon) LCD Producers in 2025

Table 20. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Company Evaluation Quadrant

Table 22. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Site of Key Manufacturer

Table 24. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Company Product Type Footprint

Table 25. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market: Company Product Application Footprint

Table 26. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Competitive Factors

Table 27. Automotive LTPS (Low-Temperature Poly-Silicon) LCD New Entrant and Capacity Expansion Plans

Table 28. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Mergers & Acquisitions Activity

Table 29. United States VS China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share (2021-2026)

Table 37. China Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive LTPS (Low-Temperature Poly-Silicon) LCD Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share (2021-2026)

Table 47. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Type (2021-2026) & (K Units)

Table 49. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Type (2027-2032) & (K Units)

Table 50. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Driving Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Driving Method (2021-2026) & (K Units)

Table 56. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Driving Method (2027-2032) & (K Units)

Table 57. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Driving Method (2021-2026) & (USD Million)

Table 58. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production

Value by Driving Method (2027-2032) & (USD Million)

Table 59. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Driving Method (2021-2026) & (US\$/Unit)

Table 60. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Driving Method (2027-2032) & (US\$/Unit)

Table 61. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Resolution (2021-2026) & (K Units)

Table 63. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Resolution (2027-2032) & (K Units)

Table 64. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Resolution (2021-2026) & (USD Million)

Table 65. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Resolution (2027-2032) & (USD Million)

Table 66. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Resolution (2021-2026) & (US\$/Unit)

Table 67. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Resolution (2027-2032) & (US\$/Unit)

Table 68. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Application (2021-2026) & (K Units)

Table 70. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production by Application (2027-2032) & (K Units)

Table 71. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. BOE Technology Basic Information, Manufacturing Base and Competitors

Table 76. BOE Technology Major Business

Table 77. BOE Technology Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 78. BOE Technology Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. BOE Technology Recent Developments/Updates

Table 80. BOE Technology Competitive Strengths & Weaknesses

Table 81. Tianma Microelectronics Basic Information, Manufacturing Base and Competitors

Table 82. Tianma Microelectronics Major Business

Table 83. Tianma Microelectronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 84. Tianma Microelectronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Tianma Microelectronics Recent Developments/Updates

Table 86. Tianma Microelectronics Competitive Strengths & Weaknesses

Table 87. AU Optronics Basic Information, Manufacturing Base and Competitors

Table 88. AU Optronics Major Business

Table 89. AU Optronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 90. AU Optronics Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. AU Optronics Recent Developments/Updates

Table 92. AU Optronics Competitive Strengths & Weaknesses

Table 93. Innolux Corporation Basic Information, Manufacturing Base and Competitors

Table 94. Innolux Corporation Major Business

Table 95. Innolux Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 96. Innolux Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Innolux Corporation Recent Developments/Updates

Table 98. Innolux Corporation Competitive Strengths & Weaknesses

Table 99. Samsung Display Basic Information, Manufacturing Base and Competitors

Table 100. Samsung Display Major Business

Table 101. Samsung Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 102. Samsung Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Samsung Display Recent Developments/Updates

Table 104. Samsung Display Competitive Strengths & Weaknesses

Table 105. LG Display Basic Information, Manufacturing Base and Competitors

Table 106. LG Display Major Business

Table 107. LG Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 108. LG Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. LG Display Recent Developments/Updates

Table 110. LG Display Competitive Strengths & Weaknesses

Table 111. CSOT (TCL China Star Optoelectronics) Basic Information, Manufacturing Base and Competitors

Table 112. CSOT (TCL China Star Optoelectronics) Major Business

Table 113. CSOT (TCL China Star Optoelectronics) Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 114. CSOT (TCL China Star Optoelectronics) Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. CSOT (TCL China Star Optoelectronics) Recent Developments/Updates

Table 116. CSOT (TCL China Star Optoelectronics) Competitive Strengths & Weaknesses

Table 117. HKC Corporation Basic Information, Manufacturing Base and Competitors

Table 118. HKC Corporation Major Business

Table 119. HKC Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 120. HKC Corporation Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. HKC Corporation Recent Developments/Updates

Table 122. HKC Corporation Competitive Strengths & Weaknesses

Table 123. JDI Basic Information, Manufacturing Base and Competitors

Table 124. JDI Major Business

Table 125. JDI Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 126. JDI Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. JDI Recent Developments/Updates

Table 128. JDI Competitive Strengths & Weaknesses

Table 129. IVO Display Basic Information, Manufacturing Base and Competitors

Table 130. IVO Display Major Business

Table 131. IVO Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Product and Services

Table 132. IVO Display Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. IVO Display Recent Developments/Updates

Table 134. IVO Display Competitive Strengths & Weaknesses

Table 135. Global Key Players of Automotive LTPS (Low-Temperature Poly-Silicon) LCD Upstream (Raw Materials)

Table 136. Global Automotive LTPS (Low-Temperature Poly-Silicon) LCD Typical Customers

Table 137. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Picture

Figure 2. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 5. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Region (2021-2032)

Figure 8. North America Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 9. Europe Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 10. China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 11. Japan Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production (2021-2032) & (K Units)

Figure 13. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 16. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Market Share by Region (2021-2032)

Figure 17. United States Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 18. China Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 19. Europe Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 20. Japan Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 21. South Korea Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 23. India Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Automotive LTPS (Low-Temperature Poly-Silicon) LCD by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automotive LTPS (Low-Temperature Poly-Silicon) LCD Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automotive LTPS (Low-Temperature Poly-Silicon) LCD Markets in 2025

Figure 27. United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automotive LTPS (Low-Temperature Poly-Silicon) LCD Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share 2025

Figure 31. China Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share 2025

Figure 33. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Type in 2025

Figure 35. ?15"

Figure 36. 15"-20"

Figure 37. Others

Figure 38. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Type (2021-2032)

Figure 39. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Type (2021-2032)

Figure 40. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Driving Method, (USD Million), 2021 & 2025 & 2032

Figure 42. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Driving Method in 2025

Figure 43. Single-Point Driving

Figure 44. Multi-Point Driving

Figure 45. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Driving Method (2021-2032)

Figure 46. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Driving Method (2021-2032)

Figure 47. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Driving Method (2021-2032) & (US\$/Unit)

Figure 48. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Figure 49. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Resolution in 2025

Figure 50. HD

Figure 51. 2K

Figure 52. Others

Figure 53. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Resolution (2021-2032)

Figure 54. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Resolution (2021-2032)

Figure 55. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Resolution (2021-2032) & (US\$/Unit)

Figure 56. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Application in 2025

Figure 58. Passenger Cars

Figure 59. Commercial Vehicle

Figure 60. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Market Share by Application (2021-2032)

Figure 61. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Production Value Market Share by Application (2021-2032)

Figure 62. World Automotive LTPS (Low-Temperature Poly-Silicon) LCD Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Industry Chain

Figure 64. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Procurement Model

Figure 65. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Sales Model

Figure 66. Automotive LTPS (Low-Temperature Poly-Silicon) LCD Sales Channels,
Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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