

Global Power Battery Heating Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Battery Heating Film market size is expected to reach \$ 661 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

In 2025, global sales of Power Battery Heating Film reached approximately 4.26 million square meters, with an average manufacturer-level selling price of around USD 76 per square meter. Gross margins among major manufacturers were generally in the range of 25%–38%.

Power Battery Heating Film is a flexible electric heating element designed for low-temperature thermal management of power batteries. It is typically composed of an insulating substrate, a resistive heating layer, conductive leads, an adhesive layer, and a protective layer, and can be attached to or integrated with battery cells, modules, and packs. When energized, the film converts electrical energy into heat through resistive heating, enabling rapid battery warm-up and improved temperature uniformity under low-temperature conditions. This helps enhance charging and discharging performance, reduce internal resistance, and shorten cold-start time. Key performance indicators include power density, heating rate, temperature uniformity, dielectric strength, aging resistance, flexibility, and dimensional stability. The product must also maintain safety and reliability under vibration, high-humidity and high-temperature conditions, thermal cycling, and prolonged electrical operation.

The upstream supply chain for Power Battery Heating Film mainly includes insulating materials such as polyimide film, silicone rubber, and polyester film; heating materials such as copper foil, nickel-chromium alloy, and resistive paste; as well as adhesives, wires, connectors, temperature sensors, and insulating protective materials. Midstream manufacturers are responsible for circuit design, etching or printing, lamination, die

cutting, lead connection, and performance testing, and generally provide customized products based on battery structure, operating voltage, and thermal-management requirements. The downstream market mainly consists of battery cell and module manufacturers, battery-pack integrators, thermal-management system suppliers, and end-equipment manufacturers. Final applications include new energy vehicles, construction machinery, aerospace equipment, power tools, rail transit, and other power systems.

Report Scope

This report studies the global Power Battery Heating Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Battery Heating Film 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 Power Battery Heating Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Battery Heating Film total production and demand, 2021-2032, (Sq m)

Global Power Battery Heating Film total production value, 2021-2032, (USD Million)

Global Power Battery Heating Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Power Battery Heating Film consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Power Battery Heating Film domestic production, consumption, key domestic manufacturers and share

Global Power Battery Heating Film production by manufacturer, production,

price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Power Battery Heating Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Power Battery Heating Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Power Battery Heating Film 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 DBK Group, Flextem, Watlow, Heatron, Minco Products, Birk Manufacturing, Epec Engineered Technologies, Backer, Gentherm, KURABE Industrial, 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 Power Battery Heating Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) 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 Power Battery Heating Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Power Battery Heating Film Market, Segmentation by Type:

Polyimide Heating Film

Silicone Rubber Heating Film

Polyester Heating Film

Global Power Battery Heating Film Market, Segmentation by Resistance–Temperature Characteristic:

Constant-Resistance Heating Film

PTC Heating Film

Global Power Battery Heating Film Market, Segmentation by Power Density:

Low Power Density (<0.5 W/cm²)

Medium Power Density (>0.5 – 1.0 W/cm²)

High Power Density (>1.0 W/cm²)

Global Power Battery Heating Film Market, Segmentation by Application:

New Energy Vehicle

Construction Machinery

Aerospace Equipment

Power Tool

Rail Transit

Other

Companies Profiled:

DBK Group

Flextem

Watlow

Heatron

Minco Products

Birk Manufacturing

Epec Engineered Technologies

Backer

Gentherm

KURABE Industrial

Shenzhen JLC Technology

Sino-Japan Electric Heater

Suzhou Hanano Materials Technology

Shenzhen Zhongli Electronics

Zhejiang Daming New Material

Guangdong Zhongyu Hengtong Electric Heating Technology

Shenzhen Fullchance Rubber & Plastic Electronics

Shenzhen Excellent Hengxin Technology Development

Jaye Heater Technology

Xiamen Boyi Technology

Dongguan Guixiang Insulation Materials

YOTTECH

Key Questions Answered:

1. How big is the global Power Battery Heating Film market?
2. What is the demand of the global Power Battery Heating Film market?
3. What is the year over year growth of the global Power Battery Heating Film market?
4. What is the production and production value of the global Power Battery Heating Film market?
5. Who are the key producers in the global Power Battery Heating Film market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Power Battery Heating Film Introduction
- 1.2 World Power Battery Heating Film Supply & Forecast
 - 1.2.1 World Power Battery Heating Film Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Power Battery Heating Film Production (2021-2032)
 - 1.2.3 World Power Battery Heating Film Pricing Trends (2021-2032)
- 1.3 World Power Battery Heating Film Production by Region (Based on Production Site)
 - 1.3.1 World Power Battery Heating Film Production Value by Region (2021-2032)
 - 1.3.2 World Power Battery Heating Film Production by Region (2021-2032)
 - 1.3.3 World Power Battery Heating Film Average Price by Region (2021-2032)
 - 1.3.4 North America Power Battery Heating Film Production (2021-2032)
 - 1.3.5 Europe Power Battery Heating Film Production (2021-2032)
 - 1.3.6 China Power Battery Heating Film Production (2021-2032)
 - 1.3.7 Japan Power Battery Heating Film Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Power Battery Heating Film Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Power Battery Heating Film Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Power Battery Heating Film Demand (2021-2032)
- 2.2 World Power Battery Heating Film Consumption by Region
 - 2.2.1 World Power Battery Heating Film Consumption by Region (2021-2026)
 - 2.2.2 World Power Battery Heating Film Consumption Forecast by Region (2027-2032)
- 2.3 United States Power Battery Heating Film Consumption (2021-2032)
- 2.4 China Power Battery Heating Film Consumption (2021-2032)
- 2.5 Europe Power Battery Heating Film Consumption (2021-2032)
- 2.6 Japan Power Battery Heating Film Consumption (2021-2032)
- 2.7 South Korea Power Battery Heating Film Consumption (2021-2032)
- 2.8 ASEAN Power Battery Heating Film Consumption (2021-2032)
- 2.9 India Power Battery Heating Film Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Power Battery Heating Film Production Value by Manufacturer (2021-2026)

- 3.2 World Power Battery Heating Film Production by Manufacturer (2021-2026)
- 3.3 World Power Battery Heating Film Average Price by Manufacturer (2021-2026)
- 3.4 Power Battery Heating Film Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Power Battery Heating Film Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Power Battery Heating Film in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Power Battery Heating Film in 2025
- 3.6 Power Battery Heating Film Market: Overall Company Footprint Analysis
 - 3.6.1 Power Battery Heating Film Market: Region Footprint
 - 3.6.2 Power Battery Heating Film Market: Company Product Type Footprint
 - 3.6.3 Power Battery Heating Film 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: Power Battery Heating Film Production Value Comparison
 - 4.1.1 United States VS China: Power Battery Heating Film Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Power Battery Heating Film Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Power Battery Heating Film Production Comparison
 - 4.2.1 United States VS China: Power Battery Heating Film Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Power Battery Heating Film Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Power Battery Heating Film Consumption Comparison
 - 4.3.1 United States VS China: Power Battery Heating Film Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Power Battery Heating Film Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Power Battery Heating Film Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Power Battery Heating Film Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Power Battery Heating Film Production Value (2021-2026)

4.4.3 United States Based Manufacturers Power Battery Heating Film Production (2021-2026)

4.5 China Based Power Battery Heating Film Manufacturers and Market Share

4.5.1 China Based Power Battery Heating Film Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Power Battery Heating Film Production Value (2021-2026)

4.5.3 China Based Manufacturers Power Battery Heating Film Production (2021-2026)

4.6 Rest of World Based Power Battery Heating Film Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Power Battery Heating Film Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Power Battery Heating Film Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Power Battery Heating Film Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Power Battery Heating Film Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Polyimide Heating Film

5.2.2 Silicone Rubber Heating Film

5.2.3 Polyester Heating Film

5.3 Market Segment by Type

5.3.1 World Power Battery Heating Film Production by Type (2021-2032)

5.3.2 World Power Battery Heating Film Production Value by Type (2021-2032)

5.3.3 World Power Battery Heating Film Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RESISTANCE-TEMPERATURE CHARACTERISTIC

6.1 World Power Battery Heating Film Market Size Overview by Resistance-Temperature Characteristic: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Resistance-Temperature Characteristic

6.2.1 Constant-Resistance Heating Film

6.2.2 PTC Heating Film

6.3 Market Segment by Resistance–Temperature Characteristic

6.3.1 World Power Battery Heating Film Production by Resistance–Temperature Characteristic (2021-2032)

6.3.2 World Power Battery Heating Film Production Value by Resistance–Temperature Characteristic (2021-2032)

6.3.3 World Power Battery Heating Film Average Price by Resistance–Temperature Characteristic (2021-2032)

7 MARKET ANALYSIS BY POWER DENSITY

7.1 World Power Battery Heating Film Market Size Overview by Power Density: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power Density

7.2.1 Low Power Density (<0.5 W/cm²)

7.2.2 Medium Power Density (>0.5 – 1.0 W/cm²)

7.2.3 High Power Density (>1.0 W/cm²)

7.3 Market Segment by Power Density

7.3.1 World Power Battery Heating Film Production by Power Density (2021-2032)

7.3.2 World Power Battery Heating Film Production Value by Power Density (2021-2032)

7.3.3 World Power Battery Heating Film Average Price by Power Density (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Power Battery Heating Film Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 New Energy Vehicle

8.2.2 Construction Machinery

8.2.3 Aerospace Equipment

8.2.4 Power Tool

8.2.5 Rail Transit

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Power Battery Heating Film Production by Application (2021-2032)

8.3.2 World Power Battery Heating Film Production Value by Application (2021-2032)

8.3.3 World Power Battery Heating Film Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 DBK Group

9.1.1 DBK Group Details

9.1.2 DBK Group Major Business

9.1.3 DBK Group Power Battery Heating Film Product and Services

9.1.4 DBK Group Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 DBK Group Recent Developments/Updates

9.1.6 DBK Group Competitive Strengths & Weaknesses

9.2 Flextem

9.2.1 Flextem Details

9.2.2 Flextem Major Business

9.2.3 Flextem Power Battery Heating Film Product and Services

9.2.4 Flextem Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Flextem Recent Developments/Updates

9.2.6 Flextem Competitive Strengths & Weaknesses

9.3 Watlow

9.3.1 Watlow Details

9.3.2 Watlow Major Business

9.3.3 Watlow Power Battery Heating Film Product and Services

9.3.4 Watlow Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Watlow Recent Developments/Updates

9.3.6 Watlow Competitive Strengths & Weaknesses

9.4 Heatron

9.4.1 Heatron Details

9.4.2 Heatron Major Business

9.4.3 Heatron Power Battery Heating Film Product and Services

9.4.4 Heatron Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Heatron Recent Developments/Updates

9.4.6 Heatron Competitive Strengths & Weaknesses

9.5 Minco Products

9.5.1 Minco Products Details

9.5.2 Minco Products Major Business

9.5.3 Minco Products Power Battery Heating Film Product and Services

9.5.4 Minco Products Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 Minco Products Recent Developments/Updates
- 9.5.6 Minco Products Competitive Strengths & Weaknesses
- 9.6 Birk Manufacturing
 - 9.6.1 Birk Manufacturing Details
 - 9.6.2 Birk Manufacturing Major Business
 - 9.6.3 Birk Manufacturing Power Battery Heating Film Product and Services
 - 9.6.4 Birk Manufacturing Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Birk Manufacturing Recent Developments/Updates
 - 9.6.6 Birk Manufacturing Competitive Strengths & Weaknesses
- 9.7 Epec Engineered Technologies
 - 9.7.1 Epec Engineered Technologies Details
 - 9.7.2 Epec Engineered Technologies Major Business
 - 9.7.3 Epec Engineered Technologies Power Battery Heating Film Product and Services
 - 9.7.4 Epec Engineered Technologies Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Epec Engineered Technologies Recent Developments/Updates
 - 9.7.6 Epec Engineered Technologies Competitive Strengths & Weaknesses
- 9.8 Backer
 - 9.8.1 Backer Details
 - 9.8.2 Backer Major Business
 - 9.8.3 Backer Power Battery Heating Film Product and Services
 - 9.8.4 Backer Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Backer Recent Developments/Updates
 - 9.8.6 Backer Competitive Strengths & Weaknesses
- 9.9 Gentherm
 - 9.9.1 Gentherm Details
 - 9.9.2 Gentherm Major Business
 - 9.9.3 Gentherm Power Battery Heating Film Product and Services
 - 9.9.4 Gentherm Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Gentherm Recent Developments/Updates
 - 9.9.6 Gentherm Competitive Strengths & Weaknesses
- 9.10 KURABE Industrial
 - 9.10.1 KURABE Industrial Details
 - 9.10.2 KURABE Industrial Major Business
 - 9.10.3 KURABE Industrial Power Battery Heating Film Product and Services

9.10.4 KURABE Industrial Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 KURABE Industrial Recent Developments/Updates

9.10.6 KURABE Industrial Competitive Strengths & Weaknesses

9.11 Shenzhen JLC Technology

9.11.1 Shenzhen JLC Technology Details

9.11.2 Shenzhen JLC Technology Major Business

9.11.3 Shenzhen JLC Technology Power Battery Heating Film Product and Services

9.11.4 Shenzhen JLC Technology Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shenzhen JLC Technology Recent Developments/Updates

9.11.6 Shenzhen JLC Technology Competitive Strengths & Weaknesses

9.12 Sino-Japan Electric Heater

9.12.1 Sino-Japan Electric Heater Details

9.12.2 Sino-Japan Electric Heater Major Business

9.12.3 Sino-Japan Electric Heater Power Battery Heating Film Product and Services

9.12.4 Sino-Japan Electric Heater Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Sino-Japan Electric Heater Recent Developments/Updates

9.12.6 Sino-Japan Electric Heater Competitive Strengths & Weaknesses

9.13 Suzhou Hanano Materials Technology

9.13.1 Suzhou Hanano Materials Technology Details

9.13.2 Suzhou Hanano Materials Technology Major Business

9.13.3 Suzhou Hanano Materials Technology Power Battery Heating Film Product and Services

9.13.4 Suzhou Hanano Materials Technology Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Suzhou Hanano Materials Technology Recent Developments/Updates

9.13.6 Suzhou Hanano Materials Technology Competitive Strengths & Weaknesses

9.14 Shenzhen Zhongli Electronics

9.14.1 Shenzhen Zhongli Electronics Details

9.14.2 Shenzhen Zhongli Electronics Major Business

9.14.3 Shenzhen Zhongli Electronics Power Battery Heating Film Product and Services

9.14.4 Shenzhen Zhongli Electronics Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Shenzhen Zhongli Electronics Recent Developments/Updates

9.14.6 Shenzhen Zhongli Electronics Competitive Strengths & Weaknesses

9.15 Zhejiang Daming New Material

- 9.15.1 Zhejiang Daming New Material Details
- 9.15.2 Zhejiang Daming New Material Major Business
- 9.15.3 Zhejiang Daming New Material Power Battery Heating Film Product and Services
- 9.15.4 Zhejiang Daming New Material Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Zhejiang Daming New Material Recent Developments/Updates
- 9.15.6 Zhejiang Daming New Material Competitive Strengths & Weaknesses
- 9.16 Guangdong Zhongyu Hengtong Electric Heating Technology
 - 9.16.1 Guangdong Zhongyu Hengtong Electric Heating Technology Details
 - 9.16.2 Guangdong Zhongyu Hengtong Electric Heating Technology Major Business
 - 9.16.3 Guangdong Zhongyu Hengtong Electric Heating Technology Power Battery Heating Film Product and Services
 - 9.16.4 Guangdong Zhongyu Hengtong Electric Heating Technology Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Guangdong Zhongyu Hengtong Electric Heating Technology Recent Developments/Updates
 - 9.16.6 Guangdong Zhongyu Hengtong Electric Heating Technology Competitive Strengths & Weaknesses
- 9.17 Shenzhen Fullchance Rubber & Plastic Electronics
 - 9.17.1 Shenzhen Fullchance Rubber & Plastic Electronics Details
 - 9.17.2 Shenzhen Fullchance Rubber & Plastic Electronics Major Business
 - 9.17.3 Shenzhen Fullchance Rubber & Plastic Electronics Power Battery Heating Film Product and Services
 - 9.17.4 Shenzhen Fullchance Rubber & Plastic Electronics Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Shenzhen Fullchance Rubber & Plastic Electronics Recent Developments/Updates
 - 9.17.6 Shenzhen Fullchance Rubber & Plastic Electronics Competitive Strengths & Weaknesses
- 9.18 Shenzhen Excellent Hengxin Technology Development
 - 9.18.1 Shenzhen Excellent Hengxin Technology Development Details
 - 9.18.2 Shenzhen Excellent Hengxin Technology Development Major Business
 - 9.18.3 Shenzhen Excellent Hengxin Technology Development Power Battery Heating Film Product and Services
 - 9.18.4 Shenzhen Excellent Hengxin Technology Development Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Shenzhen Excellent Hengxin Technology Development Recent Developments/Updates

9.18.6 Shenzhen Excellent Hengxin Technology Development Competitive Strengths & Weaknesses

9.19 Jaye Heater Technology

9.19.1 Jaye Heater Technology Details

9.19.2 Jaye Heater Technology Major Business

9.19.3 Jaye Heater Technology Power Battery Heating Film Product and Services

9.19.4 Jaye Heater Technology Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Jaye Heater Technology Recent Developments/Updates

9.19.6 Jaye Heater Technology Competitive Strengths & Weaknesses

9.20 Xiamen Boyi Technology

9.20.1 Xiamen Boyi Technology Details

9.20.2 Xiamen Boyi Technology Major Business

9.20.3 Xiamen Boyi Technology Power Battery Heating Film Product and Services

9.20.4 Xiamen Boyi Technology Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Xiamen Boyi Technology Recent Developments/Updates

9.20.6 Xiamen Boyi Technology Competitive Strengths & Weaknesses

9.21 Dongguan Guixiang Insulation Materials

9.21.1 Dongguan Guixiang Insulation Materials Details

9.21.2 Dongguan Guixiang Insulation Materials Major Business

9.21.3 Dongguan Guixiang Insulation Materials Power Battery Heating Film Product and Services

9.21.4 Dongguan Guixiang Insulation Materials Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 Dongguan Guixiang Insulation Materials Recent Developments/Updates

9.21.6 Dongguan Guixiang Insulation Materials Competitive Strengths & Weaknesses

9.22 YOTTECH

9.22.1 YOTTECH Details

9.22.2 YOTTECH Major Business

9.22.3 YOTTECH Power Battery Heating Film Product and Services

9.22.4 YOTTECH Power Battery Heating Film Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 YOTTECH Recent Developments/Updates

9.22.6 YOTTECH Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Power Battery Heating Film Industry Chain

10.2 Power Battery Heating Film Upstream Analysis

10.2.1 Power Battery Heating Film Core Raw Materials

10.2.2 Main Manufacturers of Power Battery Heating Film Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Power Battery Heating Film Production Mode

10.6 Power Battery Heating Film Procurement Model

10.7 Power Battery Heating Film Industry Sales Model and Sales Channels

10.7.1 Power Battery Heating Film Sales Model

10.7.2 Power Battery Heating Film 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 Power Battery Heating Film Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Power Battery Heating Film Production Value by Region (2021-2026) & (USD Million)

Table 3. World Power Battery Heating Film Production Value by Region (2027-2032) & (USD Million)

Table 4. World Power Battery Heating Film Production Value Market Share by Region (2021-2026)

Table 5. World Power Battery Heating Film Production Value Market Share by Region (2027-2032)

Table 6. World Power Battery Heating Film Production by Region (2021-2026) & (Sq m)

Table 7. World Power Battery Heating Film Production by Region (2027-2032) & (Sq m)

Table 8. World Power Battery Heating Film Production Market Share by Region (2021-2026)

Table 9. World Power Battery Heating Film Production Market Share by Region (2027-2032)

Table 10. World Power Battery Heating Film Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Power Battery Heating Film Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Power Battery Heating Film Major Market Trends

Table 13. World Power Battery Heating Film Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sq m)

Table 14. World Power Battery Heating Film Consumption by Region (2021-2026) & (Sq m)

Table 15. World Power Battery Heating Film Consumption Forecast by Region (2027-2032) & (Sq m)

Table 16. World Power Battery Heating Film Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Power Battery Heating Film Producers in 2025

Table 18. World Power Battery Heating Film Production by Manufacturer (2021-2026) & (Sq m)

Table 19. Production Market Share of Key Power Battery Heating Film Producers in 2025

Table 20. World Power Battery Heating Film Average Price by Manufacturer (2021-2026) & (US\$/Sq m)
Table 21. Global Power Battery Heating Film Company Evaluation Quadrant
Table 22. World Power Battery Heating Film Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Power Battery Heating Film Production Site of Key Manufacturer
Table 24. Power Battery Heating Film Market: Company Product Type Footprint
Table 25. Power Battery Heating Film Market: Company Product Application Footprint
Table 26. Power Battery Heating Film Competitive Factors
Table 27. Power Battery Heating Film New Entrant and Capacity Expansion Plans
Table 28. Power Battery Heating Film Mergers & Acquisitions Activity
Table 29. United States VS China Power Battery Heating Film Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Power Battery Heating Film Production Comparison, (2021 & 2025 & 2032) & (Sq m)
Table 31. United States VS China Power Battery Heating Film Consumption Comparison, (2021 & 2025 & 2032) & (Sq m)
Table 32. United States Based Power Battery Heating Film Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Power Battery Heating Film Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Power Battery Heating Film Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Power Battery Heating Film Production (2021-2026) & (Sq m)
Table 36. United States Based Manufacturers Power Battery Heating Film Production Market Share (2021-2026)
Table 37. China Based Power Battery Heating Film Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Power Battery Heating Film Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Power Battery Heating Film Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Power Battery Heating Film Production, (2021-2026) & (Sq m)
Table 41. China Based Manufacturers Power Battery Heating Film Production Market Share (2021-2026)
Table 42. Rest of World Based Power Battery Heating Film Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Power Battery Heating Film Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Power Battery Heating Film Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Power Battery Heating Film Production, (2021-2026) & (Sq m)

Table 46. Rest of World Based Manufacturers Power Battery Heating Film Production Market Share (2021-2026)

Table 47. World Power Battery Heating Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Power Battery Heating Film Production by Type (2021-2026) & (Sq m)

Table 49. World Power Battery Heating Film Production by Type (2027-2032) & (Sq m)

Table 50. World Power Battery Heating Film Production Value by Type (2021-2026) & (USD Million)

Table 51. World Power Battery Heating Film Production Value by Type (2027-2032) & (USD Million)

Table 52. World Power Battery Heating Film Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Power Battery Heating Film Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Power Battery Heating Film Production Value by Resistance–Temperature Characteristic, (USD Million), 2021 & 2025 & 2032

Table 55. World Power Battery Heating Film Production by Resistance–Temperature Characteristic (2021-2026) & (Sq m)

Table 56. World Power Battery Heating Film Production by Resistance–Temperature Characteristic (2027-2032) & (Sq m)

Table 57. World Power Battery Heating Film Production Value by Resistance–Temperature Characteristic (2021-2026) & (USD Million)

Table 58. World Power Battery Heating Film Production Value by Resistance–Temperature Characteristic (2027-2032) & (USD Million)

Table 59. World Power Battery Heating Film Average Price by Resistance–Temperature Characteristic (2021-2026) & (US\$/Sq m)

Table 60. World Power Battery Heating Film Average Price by Resistance–Temperature Characteristic (2027-2032) & (US\$/Sq m)

Table 61. World Power Battery Heating Film Production Value by Power Density, (USD Million), 2021 & 2025 & 2032

Table 62. World Power Battery Heating Film Production by Power Density (2021-2026) & (Sq m)

Table 63. World Power Battery Heating Film Production by Power Density (2027-2032) & (Sq m)

Table 64. World Power Battery Heating Film Production Value by Power Density (2021-2026) & (USD Million)

Table 65. World Power Battery Heating Film Production Value by Power Density (2027-2032) & (USD Million)

Table 66. World Power Battery Heating Film Average Price by Power Density (2021-2026) & (US\$/Sq m)

Table 67. World Power Battery Heating Film Average Price by Power Density (2027-2032) & (US\$/Sq m)

Table 68. World Power Battery Heating Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Power Battery Heating Film Production by Application (2021-2026) & (Sq m)

Table 70. World Power Battery Heating Film Production by Application (2027-2032) & (Sq m)

Table 71. World Power Battery Heating Film Production Value by Application (2021-2026) & (USD Million)

Table 72. World Power Battery Heating Film Production Value by Application (2027-2032) & (USD Million)

Table 73. World Power Battery Heating Film Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Power Battery Heating Film Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. DBK Group Basic Information, Manufacturing Base and Competitors

Table 76. DBK Group Major Business

Table 77. DBK Group Power Battery Heating Film Product and Services

Table 78. DBK Group Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DBK Group Recent Developments/Updates

Table 80. DBK Group Competitive Strengths & Weaknesses

Table 81. Flextem Basic Information, Manufacturing Base and Competitors

Table 82. Flextem Major Business

Table 83. Flextem Power Battery Heating Film Product and Services

Table 84. Flextem Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Flextem Recent Developments/Updates

Table 86. Flextem Competitive Strengths & Weaknesses

Table 87. Watlow Basic Information, Manufacturing Base and Competitors

Table 88. Watlow Major Business

Table 89. Watlow Power Battery Heating Film Product and Services

Table 90. Watlow Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Watlow Recent Developments/Updates

Table 92. Watlow Competitive Strengths & Weaknesses

Table 93. Heatron Basic Information, Manufacturing Base and Competitors

Table 94. Heatron Major Business

Table 95. Heatron Power Battery Heating Film Product and Services

Table 96. Heatron Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Heatron Recent Developments/Updates

Table 98. Heatron Competitive Strengths & Weaknesses

Table 99. Minco Products Basic Information, Manufacturing Base and Competitors

Table 100. Minco Products Major Business

Table 101. Minco Products Power Battery Heating Film Product and Services

Table 102. Minco Products Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Minco Products Recent Developments/Updates

Table 104. Minco Products Competitive Strengths & Weaknesses

Table 105. Birk Manufacturing Basic Information, Manufacturing Base and Competitors

Table 106. Birk Manufacturing Major Business

Table 107. Birk Manufacturing Power Battery Heating Film Product and Services

Table 108. Birk Manufacturing Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Birk Manufacturing Recent Developments/Updates

Table 110. Birk Manufacturing Competitive Strengths & Weaknesses

Table 111. Epec Engineered Technologies Basic Information, Manufacturing Base and Competitors

Table 112. Epec Engineered Technologies Major Business

Table 113. Epec Engineered Technologies Power Battery Heating Film Product and Services

Table 114. Epec Engineered Technologies Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Epec Engineered Technologies Recent Developments/Updates

Table 116. Epec Engineered Technologies Competitive Strengths & Weaknesses

Table 117. Backer Basic Information, Manufacturing Base and Competitors
Table 118. Backer Major Business
Table 119. Backer Power Battery Heating Film Product and Services
Table 120. Backer Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Backer Recent Developments/Updates
Table 122. Backer Competitive Strengths & Weaknesses
Table 123. Gentherm Basic Information, Manufacturing Base and Competitors
Table 124. Gentherm Major Business
Table 125. Gentherm Power Battery Heating Film Product and Services
Table 126. Gentherm Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Gentherm Recent Developments/Updates
Table 128. Gentherm Competitive Strengths & Weaknesses
Table 129. KURABE Industrial Basic Information, Manufacturing Base and Competitors
Table 130. KURABE Industrial Major Business
Table 131. KURABE Industrial Power Battery Heating Film Product and Services
Table 132. KURABE Industrial Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. KURABE Industrial Recent Developments/Updates
Table 134. KURABE Industrial Competitive Strengths & Weaknesses
Table 135. Shenzhen JLC Technology Basic Information, Manufacturing Base and Competitors
Table 136. Shenzhen JLC Technology Major Business
Table 137. Shenzhen JLC Technology Power Battery Heating Film Product and Services
Table 138. Shenzhen JLC Technology Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Shenzhen JLC Technology Recent Developments/Updates
Table 140. Shenzhen JLC Technology Competitive Strengths & Weaknesses
Table 141. Sino-Japan Electric Heater Basic Information, Manufacturing Base and Competitors
Table 142. Sino-Japan Electric Heater Major Business
Table 143. Sino-Japan Electric Heater Power Battery Heating Film Product and Services
Table 144. Sino-Japan Electric Heater Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. Sino-Japan Electric Heater Recent Developments/Updates

Table 146. Sino-Japan Electric Heater Competitive Strengths & Weaknesses

Table 147. Suzhou Hanano Materials Technology Basic Information, Manufacturing Base and Competitors

Table 148. Suzhou Hanano Materials Technology Major Business

Table 149. Suzhou Hanano Materials Technology Power Battery Heating Film Product and Services

Table 150. Suzhou Hanano Materials Technology Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Suzhou Hanano Materials Technology Recent Developments/Updates

Table 152. Suzhou Hanano Materials Technology Competitive Strengths & Weaknesses

Table 153. Shenzhen Zhongli Electronics Basic Information, Manufacturing Base and Competitors

Table 154. Shenzhen Zhongli Electronics Major Business

Table 155. Shenzhen Zhongli Electronics Power Battery Heating Film Product and Services

Table 156. Shenzhen Zhongli Electronics Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Shenzhen Zhongli Electronics Recent Developments/Updates

Table 158. Shenzhen Zhongli Electronics Competitive Strengths & Weaknesses

Table 159. Zhejiang Daming New Material Basic Information, Manufacturing Base and Competitors

Table 160. Zhejiang Daming New Material Major Business

Table 161. Zhejiang Daming New Material Power Battery Heating Film Product and Services

Table 162. Zhejiang Daming New Material Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Zhejiang Daming New Material Recent Developments/Updates

Table 164. Zhejiang Daming New Material Competitive Strengths & Weaknesses

Table 165. Guangdong Zhongyu Hengtong Electric Heating Technology Basic Information, Manufacturing Base and Competitors

Table 166. Guangdong Zhongyu Hengtong Electric Heating Technology Major Business

Table 167. Guangdong Zhongyu Hengtong Electric Heating Technology Power Battery Heating Film Product and Services

Table 168. Guangdong Zhongyu Hengtong Electric Heating Technology Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Guangdong Zhongyu Hengtong Electric Heating Technology Recent Developments/Updates

Table 170. Guangdong Zhongyu Hengtong Electric Heating Technology Competitive Strengths & Weaknesses

Table 171. Shenzhen Fullchance Rubber & Plastic Electronics Basic Information, Manufacturing Base and Competitors

Table 172. Shenzhen Fullchance Rubber & Plastic Electronics Major Business

Table 173. Shenzhen Fullchance Rubber & Plastic Electronics Power Battery Heating Film Product and Services

Table 174. Shenzhen Fullchance Rubber & Plastic Electronics Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Shenzhen Fullchance Rubber & Plastic Electronics Recent Developments/Updates

Table 176. Shenzhen Fullchance Rubber & Plastic Electronics Competitive Strengths & Weaknesses

Table 177. Shenzhen Excellent Hengxin Technology Development Basic Information, Manufacturing Base and Competitors

Table 178. Shenzhen Excellent Hengxin Technology Development Major Business

Table 179. Shenzhen Excellent Hengxin Technology Development Power Battery Heating Film Product and Services

Table 180. Shenzhen Excellent Hengxin Technology Development Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Shenzhen Excellent Hengxin Technology Development Recent Developments/Updates

Table 182. Shenzhen Excellent Hengxin Technology Development Competitive Strengths & Weaknesses

Table 183. Jaye Heater Technology Basic Information, Manufacturing Base and Competitors

Table 184. Jaye Heater Technology Major Business

Table 185. Jaye Heater Technology Power Battery Heating Film Product and Services

Table 186. Jaye Heater Technology Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Jaye Heater Technology Recent Developments/Updates

Table 188. Jaye Heater Technology Competitive Strengths & Weaknesses
Table 189. Xiamen Boyi Technology Basic Information, Manufacturing Base and Competitors
Table 190. Xiamen Boyi Technology Major Business
Table 191. Xiamen Boyi Technology Power Battery Heating Film Product and Services
Table 192. Xiamen Boyi Technology Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Xiamen Boyi Technology Recent Developments/Updates
Table 194. Xiamen Boyi Technology Competitive Strengths & Weaknesses
Table 195. Dongguan Guixiang Insulation Materials Basic Information, Manufacturing Base and Competitors
Table 196. Dongguan Guixiang Insulation Materials Major Business
Table 197. Dongguan Guixiang Insulation Materials Power Battery Heating Film Product and Services
Table 198. Dongguan Guixiang Insulation Materials Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 199. Dongguan Guixiang Insulation Materials Recent Developments/Updates
Table 200. Dongguan Guixiang Insulation Materials Competitive Strengths & Weaknesses
Table 201. YOTTECH Basic Information, Manufacturing Base and Competitors
Table 202. YOTTECH Major Business
Table 203. YOTTECH Power Battery Heating Film Product and Services
Table 204. YOTTECH Power Battery Heating Film Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205. YOTTECH Recent Developments/Updates
Table 206. YOTTECH Competitive Strengths & Weaknesses
Table 207. Global Key Players of Power Battery Heating Film Upstream (Raw Materials)
Table 208. Global Power Battery Heating Film Typical Customers
Table 209. Power Battery Heating Film Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Power Battery Heating Film Picture

Figure 2. World Power Battery Heating Film Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Power Battery Heating Film Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Power Battery Heating Film Production (2021-2032) & (Sq m)

Figure 5. World Power Battery Heating Film Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Power Battery Heating Film Production Value Market Share by Region (2021-2032)

Figure 7. World Power Battery Heating Film Production Market Share by Region (2021-2032)

Figure 8. North America Power Battery Heating Film Production (2021-2032) & (Sq m)

Figure 9. Europe Power Battery Heating Film Production (2021-2032) & (Sq m)

Figure 10. China Power Battery Heating Film Production (2021-2032) & (Sq m)

Figure 11. Japan Power Battery Heating Film Production (2021-2032) & (Sq m)

Figure 12. Power Battery Heating Film Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 15. World Power Battery Heating Film Consumption Market Share by Region (2021-2032)

Figure 16. United States Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 17. China Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 18. Europe Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 19. Japan Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 20. South Korea Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 21. ASEAN Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 22. India Power Battery Heating Film Consumption (2021-2032) & (Sq m)

Figure 23. Producer Shipments of Power Battery Heating Film by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Power Battery Heating Film Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Power Battery Heating Film Markets in 2025

Figure 26. United States VS China: Power Battery Heating Film Production Value

Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Power Battery Heating Film Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Power Battery Heating Film Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Power Battery Heating Film Production Market Share 2025

Figure 30. China Based Manufacturers Power Battery Heating Film Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Power Battery Heating Film Production Market Share 2025

Figure 32. World Power Battery Heating Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Power Battery Heating Film Production Value Market Share by Type in 2025

Figure 34. Polyimide Heating Film

Figure 35. Silicone Rubber Heating Film

Figure 36. Polyester Heating Film

Figure 37. World Power Battery Heating Film Production Market Share by Type (2021-2032)

Figure 38. World Power Battery Heating Film Production Value Market Share by Type (2021-2032)

Figure 39. World Power Battery Heating Film Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 40. World Power Battery Heating Film Production Value by Resistance–Temperature Characteristic, (USD Million), 2021 & 2025 & 2032

Figure 41. World Power Battery Heating Film Production Value Market Share by Resistance–Temperature Characteristic in 2025

Figure 42. Constant-Resistance Heating Film

Figure 43. PTC Heating Film

Figure 44. World Power Battery Heating Film Production Market Share by Resistance–Temperature Characteristic (2021-2032)

Figure 45. World Power Battery Heating Film Production Value Market Share by Resistance–Temperature Characteristic (2021-2032)

Figure 46. World Power Battery Heating Film Average Price by Resistance–Temperature Characteristic (2021-2032) & (US\$/Sq m)

Figure 47. World Power Battery Heating Film Production Value by Power Density, (USD Million), 2021 & 2025 & 2032

Figure 48. World Power Battery Heating Film Production Value Market Share by Power

Density in 2025

Figure 49. Low Power Density (<0.5 W/cm²)

Figure 50. Medium Power Density (>0.5 – 1.0 W/cm²)

Figure 51. High Power Density (>1.0 W/cm²)

Figure 52. World Power Battery Heating Film Production Market Share by Power Density (2021-2032)

Figure 53. World Power Battery Heating Film Production Value Market Share by Power Density (2021-2032)

Figure 54. World Power Battery Heating Film Average Price by Power Density (2021-2032) & (US\$/Sq m)

Figure 55. World Power Battery Heating Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Power Battery Heating Film Production Value Market Share by Application in 2025

Figure 57. New Energy Vehicle

Figure 58. Construction Machinery

Figure 59. Aerospace Equipment

Figure 60. Power Tool

Figure 61. Rail Transit

Figure 62. Other

Figure 63. World Power Battery Heating Film Production Market Share by Application (2021-2032)

Figure 64. World Power Battery Heating Film Production Value Market Share by Application (2021-2032)

Figure 65. World Power Battery Heating Film Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 66. Power Battery Heating Film Industry Chain

Figure 67. Power Battery Heating Film Procurement Model

Figure 68. Power Battery Heating Film Sales Model

Figure 69. Power Battery Heating Film Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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