

# Global EPE Encapsulation Film Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global EPE Encapsulation Film market size is expected to reach \$ 2655 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

EPE encapsulating film is a high-performance co-extruded polymer film primarily used for photovoltaic module encapsulation. It is typically manufactured through a multi-layer co-extrusion structure of materials such as EVA and POE, combining the processability of EVA with the aging resistance and high barrier properties of POE. This type of film is used between the solar cell and the glass or backsheet, serving as an adhesive, buffer, insulator, and environmental protector, effectively improving the module's resistance to damp heat, PID resistance, and long-term reliability. Compared to traditional single-layer EVA film, EPE encapsulating film has seen a continuously increasing penetration rate in double-glass modules and high-efficiency cell technologies, becoming an important development direction for photovoltaic encapsulation materials. In 2025, the total sales volume of EPE encapsulating film was 1,941 million square meters, with a selling price of approximately US\$799 per thousand square meters. The annual production capacity of a single EPE encapsulating film production line is approximately 5 million square meters per year, with a gross profit margin of approximately 5%-20%. The upstream of the EPE encapsulation film industry chain mainly consists of polymer resins such as EVA and POE, as well as functional additives. Raw material costs are highly correlated with fluctuations in petrochemical raw material prices. The midstream is the EPE encapsulation film manufacturing stage, where companies use multi-layer co-extrusion processes to composite different materials into films. This requires high levels of expertise in formulation design, extrusion equipment stability, and quality control, creating significant technological and scale barriers. The downstream is primarily used in photovoltaic module encapsulation, widely applied in double-glass modules and high-efficiency cell technologies (such as N-type, TOPCon, and HJT), ultimately serving both

centralized and distributed photovoltaic power generation markets. Demand growth is highly correlated with global photovoltaic installation scale and module technology upgrade trends.

The growth of the EPE encapsulation film market is primarily driven by factors such as the continued increase in global photovoltaic installations, the accelerated penetration of high-efficiency battery technology, and the increased proportion of double-glass modules. The rising demands for module reliability and aging resistance from technologies like N-type, TOPCon, and HJT are accelerating the replacement of traditional EVA products with EPE encapsulation films that offer superior resistance to humidity and heat and PID (Potential Inhibition of Irregularities). Simultaneously, the increasing focus on the levelized cost of electricity (LCOE) for photovoltaic modules is also prompting upgrades in encapsulation materials towards higher reliability. On the other hand, the industry also faces uncertainties such as fluctuating raw material prices, intensified competition due to rapid capacity expansion, product homogenization risks, and changes in technological routes. EVA/POE resin prices are significantly affected by the petrochemical cycle, potentially squeezing profit margins. Furthermore, the accelerated commercialization of new encapsulation materials or processes could pose a substitution risk to existing EPE encapsulation film products.

This report studies the global EPE Encapsulation Film production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global EPE Encapsulation Film total production and demand, 2021-2032, (K Sqm)

Global EPE Encapsulation Film total production value, 2021-2032, (USD Million)

Global EPE Encapsulation Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global EPE Encapsulation Film consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: EPE Encapsulation Film domestic production, consumption, key domestic manufacturers and share

Global EPE Encapsulation Film production by manufacturer, production, price, value

and market share 2021-2026, (USD Million) & (K Sqm)

Global EPE Encapsulation Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global EPE Encapsulation Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global EPE Encapsulation 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 Hangzhou First Applied Material, Sveck, Betterial, Cybrid Technologies, Shanghai HiUV New Materials, Zhejiang Sinopont Technology, Guangzhou Lushan New Materials, Jiangsu Huguang Solar Energy Technology, RenewSys, Eximius New Energy, 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 EPE Encapsulation Film market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global EPE Encapsulation Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EPE Encapsulation Film Market, Segmentation by Type:

Thick EPE

Thin EPE

Global EPE Encapsulation Film Market, Segmentation by Structure:

Three-layer Co-extruded EPE Film

Multi-layer Co-extruded EPE Film (?5 layers)

Global EPE Encapsulation Film Market, Segmentation by Core Materials:

EVA-POE-EVA Type EPE Film

POE Modified EPE Film

Others

Global EPE Encapsulation Film Market, Segmentation by Application:

Double-Glass Module

N-type Solar Module

Companies Profiled:

Hangzhou First Applied Material

Sveck

Betterial

Cybrid Technologies

Shanghai HiUV New Materials

Zhejiang Sinopont Technology

Guangzhou Lushan New Materials

Jiangsu Heguang Solar Energy Technology

RenewSys

Eximius New Energy

Vishakha Renewables

Alishan Green Energy

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Automotive Extruded Aluminum Alloy Demand (2021-2032)
- 2.2 World Automotive Extruded Aluminum Alloy Consumption by Region
  - 2.2.1 World Automotive Extruded Aluminum Alloy Consumption by Region (2021-2026)
  - 2.2.2 World Automotive Extruded Aluminum Alloy Consumption Forecast by Region (2027-2032)
- 2.3 United States Automotive Extruded Aluminum Alloy Consumption (2021-2032)
- 2.4 China Automotive Extruded Aluminum Alloy Consumption (2021-2032)
- 2.5 Europe Automotive Extruded Aluminum Alloy Consumption (2021-2032)
- 2.6 Japan Automotive Extruded Aluminum Alloy Consumption (2021-2032)
- 2.7 South Korea Automotive Extruded Aluminum Alloy Consumption (2021-2032)

2.8 ASEAN Automotive Extruded Aluminum Alloy Consumption (2021-2032)

2.9 India Automotive Extruded Aluminum Alloy Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Automotive Extruded Aluminum Alloy Production Value by Manufacturer (2021-2026)

3.2 World Automotive Extruded Aluminum Alloy Production by Manufacturer (2021-2026)

3.3 World Automotive Extruded Aluminum Alloy Average Price by Manufacturer (2021-2026)

3.4 Automotive Extruded Aluminum Alloy Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Automotive Extruded Aluminum Alloy Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Automotive Extruded Aluminum Alloy in 2025

3.5.3 Global Concentration Ratios (CR8) for Automotive Extruded Aluminum Alloy in 2025

3.6 Automotive Extruded Aluminum Alloy Market: Overall Company Footprint Analysis

3.6.1 Automotive Extruded Aluminum Alloy Market: Region Footprint

3.6.2 Automotive Extruded Aluminum Alloy Market: Company Product Type Footprint

3.6.3 Automotive Extruded Aluminum Alloy 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 Extruded Aluminum Alloy Production Value Comparison

4.1.1 United States VS China: Automotive Extruded Aluminum Alloy Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Automotive Extruded Aluminum Alloy Production Value Market Share Comparison (2021 & 2025 & 2032)

## 4.2 United States VS China: Automotive Extruded Aluminum Alloy Production Comparison

4.2.1 United States VS China: Automotive Extruded Aluminum Alloy Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automotive Extruded Aluminum Alloy Production Market Share Comparison (2021 & 2025 & 2032)

## 4.3 United States VS China: Automotive Extruded Aluminum Alloy Consumption Comparison

4.3.1 United States VS China: Automotive Extruded Aluminum Alloy Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive Extruded Aluminum Alloy Consumption Market Share Comparison (2021 & 2025 & 2032)

## 4.4 United States Based Automotive Extruded Aluminum Alloy Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive Extruded Aluminum Alloy Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Extruded Aluminum Alloy Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Extruded Aluminum Alloy Production (2021-2026)

## 4.5 China Based Automotive Extruded Aluminum Alloy Manufacturers and Market Share

4.5.1 China Based Automotive Extruded Aluminum Alloy Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive Extruded Aluminum Alloy Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Extruded Aluminum Alloy Production (2021-2026)

## 4.6 Rest of World Based Automotive Extruded Aluminum Alloy Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive Extruded Aluminum Alloy Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive Extruded Aluminum Alloy Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Extruded Aluminum Alloy Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Automotive Extruded Aluminum Alloy Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Casting

5.2.2 Forging

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Automotive Extruded Aluminum Alloy Production by Type (2021-2032)

5.3.2 World Automotive Extruded Aluminum Alloy Production Value by Type (2021-2032)

5.3.3 World Automotive Extruded Aluminum Alloy Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY VEHICLE SYSTEM**

6.1 World Automotive Extruded Aluminum Alloy Market Size Overview by Vehicle System: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Vehicle System

6.2.1 Body Structure Parts

6.2.2 Chassis Parts

6.2.3 Powertrain Parts

6.2.4 Others

6.3 Market Segment by Vehicle System

6.3.1 World Automotive Extruded Aluminum Alloy Production by Vehicle System (2021-2032)

6.3.2 World Automotive Extruded Aluminum Alloy Production Value by Vehicle System (2021-2032)

6.3.3 World Automotive Extruded Aluminum Alloy Average Price by Vehicle System (2021-2032)

## **7 MARKET ANALYSIS BY ALLOY SYSTEM**

7.1 World Automotive Extruded Aluminum Alloy Market Size Overview by Alloy System: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Alloy System

7.2.1 5xxx

7.2.2 6xxx

7.2.3 7xxx

7.2.4 Others

7.3 Market Segment by Alloy System

7.3.1 World Automotive Extruded Aluminum Alloy Production by Alloy System  
(2021-2032)

7.3.2 World Automotive Extruded Aluminum Alloy Production Value by Alloy System  
(2021-2032)

7.3.3 World Automotive Extruded Aluminum Alloy Average Price by Alloy System  
(2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Automotive Extruded Aluminum Alloy Market Size Overview by Application:  
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Commercial Vehicle

8.2.2 Passenger Vehicle

8.3 Market Segment by Application

8.3.1 World Automotive Extruded Aluminum Alloy Production by Application  
(2021-2032)

8.3.2 World Automotive Extruded Aluminum Alloy Production Value by Application  
(2021-2032)

8.3.3 World Automotive Extruded Aluminum Alloy Average Price by Application  
(2021-2032)

## **9 COMPANY PROFILES**

9.1 CITIC Dicastal

9.1.1 CITIC Dicastal Details

9.1.2 CITIC Dicastal Major Business

9.1.3 CITIC Dicastal Automotive Extruded Aluminum Alloy Product and Services

9.1.4 CITIC Dicastal Automotive Extruded Aluminum Alloy Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

9.1.5 CITIC Dicastal Recent Developments/Updates

9.1.6 CITIC Dicastal Competitive Strengths & Weaknesses

9.2 Ronal Wheels

9.2.1 Ronal Wheels Details

9.2.2 Ronal Wheels Major Business

9.2.3 Ronal Wheels Automotive Extruded Aluminum Alloy Product and Services

9.2.4 Ronal Wheels Automotive Extruded Aluminum Alloy Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

9.2.5 Ronal Wheels Recent Developments/Updates

- 9.2.6 Ronal Wheels Competitive Strengths & Weaknesses
- 9.3 Superior Industries
  - 9.3.1 Superior Industries Details
  - 9.3.2 Superior Industries Major Business
  - 9.3.3 Superior Industries Automotive Extruded Aluminum Alloy Product and Services
  - 9.3.4 Superior Industries Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Superior Industries Recent Developments/Updates
  - 9.3.6 Superior Industries Competitive Strengths & Weaknesses
- 9.4 Borbet
  - 9.4.1 Borbet Details
  - 9.4.2 Borbet Major Business
  - 9.4.3 Borbet Automotive Extruded Aluminum Alloy Product and Services
  - 9.4.4 Borbet Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Borbet Recent Developments/Updates
  - 9.4.6 Borbet Competitive Strengths & Weaknesses
- 9.5 Iochpe-Maxion
  - 9.5.1 Iochpe-Maxion Details
  - 9.5.2 Iochpe-Maxion Major Business
  - 9.5.3 Iochpe-Maxion Automotive Extruded Aluminum Alloy Product and Services
  - 9.5.4 Iochpe-Maxion Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Iochpe-Maxion Recent Developments/Updates
  - 9.5.6 Iochpe-Maxion Competitive Strengths & Weaknesses
- 9.6 Howmet Aerospace
  - 9.6.1 Howmet Aerospace Details
  - 9.6.2 Howmet Aerospace Major Business
  - 9.6.3 Howmet Aerospace Automotive Extruded Aluminum Alloy Product and Services
  - 9.6.4 Howmet Aerospace Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Howmet Aerospace Recent Developments/Updates
  - 9.6.6 Howmet Aerospace Competitive Strengths & Weaknesses
- 9.7 Wanfeng Auto
  - 9.7.1 Wanfeng Auto Details
  - 9.7.2 Wanfeng Auto Major Business
  - 9.7.3 Wanfeng Auto Automotive Extruded Aluminum Alloy Product and Services
  - 9.7.4 Wanfeng Auto Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.7.5 Wanfeng Auto Recent Developments/Updates
- 9.7.6 Wanfeng Auto Competitive Strengths & Weaknesses
- 9.8 Lizhong Group
  - 9.8.1 Lizhong Group Details
  - 9.8.2 Lizhong Group Major Business
  - 9.8.3 Lizhong Group Automotive Extruded Aluminum Alloy Product and Services
  - 9.8.4 Lizhong Group Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Lizhong Group Recent Developments/Updates
  - 9.8.6 Lizhong Group Competitive Strengths & Weaknesses
- 9.9 Topy Group
  - 9.9.1 Topy Group Details
  - 9.9.2 Topy Group Major Business
  - 9.9.3 Topy Group Automotive Extruded Aluminum Alloy Product and Services
  - 9.9.4 Topy Group Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Topy Group Recent Developments/Updates
  - 9.9.6 Topy Group Competitive Strengths & Weaknesses
- 9.10 Enkei Wheels
  - 9.10.1 Enkei Wheels Details
  - 9.10.2 Enkei Wheels Major Business
  - 9.10.3 Enkei Wheels Automotive Extruded Aluminum Alloy Product and Services
  - 9.10.4 Enkei Wheels Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Enkei Wheels Recent Developments/Updates
  - 9.10.6 Enkei Wheels Competitive Strengths & Weaknesses
- 9.11 Zhejiang Jinfei
  - 9.11.1 Zhejiang Jinfei Details
  - 9.11.2 Zhejiang Jinfei Major Business
  - 9.11.3 Zhejiang Jinfei Automotive Extruded Aluminum Alloy Product and Services
  - 9.11.4 Zhejiang Jinfei Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Zhejiang Jinfei Recent Developments/Updates
  - 9.11.6 Zhejiang Jinfei Competitive Strengths & Weaknesses
- 9.12 Accuride
  - 9.12.1 Accuride Details
  - 9.12.2 Accuride Major Business
  - 9.12.3 Accuride Automotive Extruded Aluminum Alloy Product and Services
  - 9.12.4 Accuride Automotive Extruded Aluminum Alloy Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.12.5 Accuride Recent Developments/Updates

9.12.6 Accuride Competitive Strengths & Weaknesses

## 9.13 YHI

9.13.1 YHI Details

9.13.2 YHI Major Business

9.13.3 YHI Automotive Extruded Aluminum Alloy Product and Services

9.13.4 YHI Automotive Extruded Aluminum Alloy Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.13.5 YHI Recent Developments/Updates

9.13.6 YHI Competitive Strengths & Weaknesses

## 9.14 Yueling Wheels

9.14.1 Yueling Wheels Details

9.14.2 Yueling Wheels Major Business

9.14.3 Yueling Wheels Automotive Extruded Aluminum Alloy Product and Services

9.14.4 Yueling Wheels Automotive Extruded Aluminum Alloy Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

9.14.5 Yueling Wheels Recent Developments/Updates

9.14.6 Yueling Wheels Competitive Strengths & Weaknesses

## 9.15 Zhongnan Aluminum Wheels

9.15.1 Zhongnan Aluminum Wheels Details

9.15.2 Zhongnan Aluminum Wheels Major Business

9.15.3 Zhongnan Aluminum Wheels Automotive Extruded Aluminum Alloy Product and Services

9.15.4 Zhongnan Aluminum Wheels Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Zhongnan Aluminum Wheels Recent Developments/Updates

9.15.6 Zhongnan Aluminum Wheels Competitive Strengths & Weaknesses

## 9.16 JC Forged

9.16.1 JC Forged Details

9.16.2 JC Forged Major Business

9.16.3 JC Forged Automotive Extruded Aluminum Alloy Product and Services

9.16.4 JC Forged Automotive Extruded Aluminum Alloy Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

9.16.5 JC Forged Recent Developments/Updates

9.16.6 JC Forged Competitive Strengths & Weaknesses

## 9.17 Pomlead

9.17.1 Pomlead Details

9.17.2 Pomlead Major Business

- 9.17.3 Pomlead Automotive Extruded Aluminum Alloy Product and Services
- 9.17.4 Pomlead Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Pomlead Recent Developments/Updates
- 9.17.6 Pomlead Competitive Strengths & Weaknesses
- 9.18 Zeroneal
  - 9.18.1 Zeroneal Details
  - 9.18.2 Zeroneal Major Business
  - 9.18.3 Zeroneal Automotive Extruded Aluminum Alloy Product and Services
  - 9.18.4 Zeroneal Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 Zeroneal Recent Developments/Updates
  - 9.18.6 Zeroneal Competitive Strengths & Weaknesses
- 9.19 Otto Fuchs
  - 9.19.1 Otto Fuchs Details
  - 9.19.2 Otto Fuchs Major Business
  - 9.19.3 Otto Fuchs Automotive Extruded Aluminum Alloy Product and Services
  - 9.19.4 Otto Fuchs Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 Otto Fuchs Recent Developments/Updates
  - 9.19.6 Otto Fuchs Competitive Strengths & Weaknesses
- 9.20 Wheels India
  - 9.20.1 Wheels India Details
  - 9.20.2 Wheels India Major Business
  - 9.20.3 Wheels India Automotive Extruded Aluminum Alloy Product and Services
  - 9.20.4 Wheels India Automotive Extruded Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.20.5 Wheels India Recent Developments/Updates
  - 9.20.6 Wheels India Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Automotive Extruded Aluminum Alloy Industry Chain
- 10.2 Automotive Extruded Aluminum Alloy Upstream Analysis
  - 10.2.1 Automotive Extruded Aluminum Alloy Core Raw Materials
  - 10.2.2 Main Manufacturers of Automotive Extruded Aluminum Alloy Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

- 10.5 Automotive Extruded Aluminum Alloy Production Mode
- 10.6 Automotive Extruded Aluminum Alloy Procurement Model
- 10.7 Automotive Extruded Aluminum Alloy Industry Sales Model and Sales Channels
  - 10.7.1 Automotive Extruded Aluminum Alloy Sales Model
  - 10.7.2 Automotive Extruded Aluminum Alloy 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 EPE Encapsulation Film Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World EPE Encapsulation Film Production Value by Region (2021-2026) & (USD Million)

Table 3. World EPE Encapsulation Film Production Value by Region (2027-2032) & (USD Million)

Table 4. World EPE Encapsulation Film Production Value Market Share by Region (2021-2026)

Table 5. World EPE Encapsulation Film Production Value Market Share by Region (2027-2032)

Table 6. World EPE Encapsulation Film Production by Region (2021-2026) & (K Sqm)

Table 7. World EPE Encapsulation Film Production by Region (2027-2032) & (K Sqm)

Table 8. World EPE Encapsulation Film Production Market Share by Region (2021-2026)

Table 9. World EPE Encapsulation Film Production Market Share by Region (2027-2032)

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

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

Table 12. EPE Encapsulation Film Major Market Trends

Table 13. World EPE Encapsulation Film Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World EPE Encapsulation Film Consumption by Region (2021-2026) & (K Sqm)

Table 15. World EPE Encapsulation Film Consumption Forecast by Region (2027-2032) & (K Sqm)

Table 16. World EPE Encapsulation Film Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key EPE Encapsulation Film Producers in 2025

Table 18. World EPE Encapsulation Film Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key EPE Encapsulation Film Producers in 2025

Table 20. World EPE Encapsulation Film Average Price by Manufacturer (2021-2026) &

(US\$/Sq m)

Table 21. Global EPE Encapsulation Film Company Evaluation Quadrant

Table 22. World EPE Encapsulation Film Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and EPE Encapsulation Film Production Site of Key Manufacturer

Table 24. EPE Encapsulation Film Market: Company Product Type Footprint

Table 25. EPE Encapsulation Film Market: Company Product Application Footprint

Table 26. EPE Encapsulation Film Competitive Factors

Table 27. EPE Encapsulation Film New Entrant and Capacity Expansion Plans

Table 28. EPE Encapsulation Film Mergers & Acquisitions Activity

Table 29. United States VS China EPE Encapsulation Film Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China EPE Encapsulation Film Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China EPE Encapsulation Film Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 32. United States Based EPE Encapsulation Film Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers EPE Encapsulation Film Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers EPE Encapsulation Film Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers EPE Encapsulation Film Production (2021-2026) & (K Sqm)

Table 36. United States Based Manufacturers EPE Encapsulation Film Production Market Share (2021-2026)

Table 37. China Based EPE Encapsulation Film Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers EPE Encapsulation Film Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers EPE Encapsulation Film Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers EPE Encapsulation Film Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers EPE Encapsulation Film Production Market Share (2021-2026)

Table 42. Rest of World Based EPE Encapsulation Film Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers EPE Encapsulation Film Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers EPE Encapsulation Film Production, (2021-2026) & (K Sqm)

Table 46. Rest of World Based Manufacturers EPE Encapsulation Film Production Market Share (2021-2026)

Table 47. World EPE Encapsulation Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World EPE Encapsulation Film Production by Type (2021-2026) & (K Sqm)

Table 49. World EPE Encapsulation Film Production by Type (2027-2032) & (K Sqm)

Table 50. World EPE Encapsulation Film Production Value by Type (2021-2026) & (USD Million)

Table 51. World EPE Encapsulation Film Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World EPE Encapsulation Film Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World EPE Encapsulation Film Production by Structure (2021-2026) & (K Sqm)

Table 56. World EPE Encapsulation Film Production by Structure (2027-2032) & (K Sqm)

Table 57. World EPE Encapsulation Film Production Value by Structure (2021-2026) & (USD Million)

Table 58. World EPE Encapsulation Film Production Value by Structure (2027-2032) & (USD Million)

Table 59. World EPE Encapsulation Film Average Price by Structure (2021-2026) & (US\$/Sq m)

Table 60. World EPE Encapsulation Film Average Price by Structure (2027-2032) & (US\$/Sq m)

Table 61. World EPE Encapsulation Film Production Value by Core Materials, (USD Million), 2021 & 2025 & 2032

Table 62. World EPE Encapsulation Film Production by Core Materials (2021-2026) & (K Sqm)

Table 63. World EPE Encapsulation Film Production by Core Materials (2027-2032) &

(K Sqm)

Table 64. World EPE Encapsulation Film Production Value by Core Materials (2021-2026) & (USD Million)

Table 65. World EPE Encapsulation Film Production Value by Core Materials (2027-2032) & (USD Million)

Table 66. World EPE Encapsulation Film Average Price by Core Materials (2021-2026) & (US\$/Sq m)

Table 67. World EPE Encapsulation Film Average Price by Core Materials (2027-2032) & (US\$/Sq m)

Table 68. World EPE Encapsulation Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World EPE Encapsulation Film Production by Application (2021-2026) & (K Sqm)

Table 70. World EPE Encapsulation Film Production by Application (2027-2032) & (K Sqm)

Table 71. World EPE Encapsulation Film Production Value by Application (2021-2026) & (USD Million)

Table 72. World EPE Encapsulation Film Production Value by Application (2027-2032) & (USD Million)

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

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

Table 75. Hangzhou First Applied Material Basic Information, Manufacturing Base and Competitors

Table 76. Hangzhou First Applied Material Major Business

Table 77. Hangzhou First Applied Material EPE Encapsulation Film Product and Services

Table 78. Hangzhou First Applied Material EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hangzhou First Applied Material Recent Developments/Updates

Table 80. Hangzhou First Applied Material Competitive Strengths & Weaknesses

Table 81. Sveck Basic Information, Manufacturing Base and Competitors

Table 82. Sveck Major Business

Table 83. Sveck EPE Encapsulation Film Product and Services

Table 84. Sveck EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sveck Recent Developments/Updates

- Table 86. Sveck Competitive Strengths & Weaknesses
- Table 87. Betterial Basic Information, Manufacturing Base and Competitors
- Table 88. Betterial Major Business
- Table 89. Betterial EPE Encapsulation Film Product and Services
- Table 90. Betterial EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Betterial Recent Developments/Updates
- Table 92. Betterial Competitive Strengths & Weaknesses
- Table 93. Cybrid Technologies Basic Information, Manufacturing Base and Competitors
- Table 94. Cybrid Technologies Major Business
- Table 95. Cybrid Technologies EPE Encapsulation Film Product and Services
- Table 96. Cybrid Technologies EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Cybrid Technologies Recent Developments/Updates
- Table 98. Cybrid Technologies Competitive Strengths & Weaknesses
- Table 99. Shanghai HiUV New Materials Basic Information, Manufacturing Base and Competitors
- Table 100. Shanghai HiUV New Materials Major Business
- Table 101. Shanghai HiUV New Materials EPE Encapsulation Film Product and Services
- Table 102. Shanghai HiUV New Materials EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Shanghai HiUV New Materials Recent Developments/Updates
- Table 104. Shanghai HiUV New Materials Competitive Strengths & Weaknesses
- Table 105. Zhejiang Sinopont Technology Basic Information, Manufacturing Base and Competitors
- Table 106. Zhejiang Sinopont Technology Major Business
- Table 107. Zhejiang Sinopont Technology EPE Encapsulation Film Product and Services
- Table 108. Zhejiang Sinopont Technology EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Zhejiang Sinopont Technology Recent Developments/Updates
- Table 110. Zhejiang Sinopont Technology Competitive Strengths & Weaknesses
- Table 111. Guangzhou Lushan New Materials Basic Information, Manufacturing Base and Competitors
- Table 112. Guangzhou Lushan New Materials Major Business

Table 113. Guangzhou Lushan New Materials EPE Encapsulation Film Product and Services

Table 114. Guangzhou Lushan New Materials EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Guangzhou Lushan New Materials Recent Developments/Updates

Table 116. Guangzhou Lushan New Materials Competitive Strengths & Weaknesses

Table 117. Jiangsu Huguang Solar Energy Technology Basic Information, Manufacturing Base and Competitors

Table 118. Jiangsu Huguang Solar Energy Technology Major Business

Table 119. Jiangsu Huguang Solar Energy Technology EPE Encapsulation Film Product and Services

Table 120. Jiangsu Huguang Solar Energy Technology EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Jiangsu Huguang Solar Energy Technology Recent Developments/Updates

Table 122. Jiangsu Huguang Solar Energy Technology Competitive Strengths & Weaknesses

Table 123. RenewSys Basic Information, Manufacturing Base and Competitors

Table 124. RenewSys Major Business

Table 125. RenewSys EPE Encapsulation Film Product and Services

Table 126. RenewSys EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. RenewSys Recent Developments/Updates

Table 128. RenewSys Competitive Strengths & Weaknesses

Table 129. Eximius New Energy Basic Information, Manufacturing Base and Competitors

Table 130. Eximius New Energy Major Business

Table 131. Eximius New Energy EPE Encapsulation Film Product and Services

Table 132. Eximius New Energy EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Eximius New Energy Recent Developments/Updates

Table 134. Eximius New Energy Competitive Strengths & Weaknesses

Table 135. Vishakha Renewables Basic Information, Manufacturing Base and Competitors

Table 136. Vishakha Renewables Major Business

Table 137. Vishakha Renewables EPE Encapsulation Film Product and Services

Table 138. Vishakha Renewables EPE Encapsulation Film Production (K Sqm), Price

(US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Vishakha Renewables Recent Developments/Updates

Table 140. Vishakha Renewables Competitive Strengths & Weaknesses

Table 141. Alishan Green Energy Basic Information, Manufacturing Base and Competitors

Table 142. Alishan Green Energy Major Business

Table 143. Alishan Green Energy EPE Encapsulation Film Product and Services

Table 144. Alishan Green Energy EPE Encapsulation Film Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Alishan Green Energy Recent Developments/Updates

Table 146. Alishan Green Energy Competitive Strengths & Weaknesses

Table 147. Global Key Players of EPE Encapsulation Film Upstream (Raw Materials)

Table 148. Global EPE Encapsulation Film Typical Customers

Table 149. EPE Encapsulation Film Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. EPE Encapsulation Film Picture
- Figure 2. World EPE Encapsulation Film Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World EPE Encapsulation Film Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World EPE Encapsulation Film Production (2021-2032) & (K Sqm)
- Figure 5. World EPE Encapsulation Film Average Price (2021-2032) & (US\$/Sq m)
- Figure 6. World EPE Encapsulation Film Production Value Market Share by Region (2021-2032)
- Figure 7. World EPE Encapsulation Film Production Market Share by Region (2021-2032)
- Figure 8. North America EPE Encapsulation Film Production (2021-2032) & (K Sqm)
- Figure 9. Europe EPE Encapsulation Film Production (2021-2032) & (K Sqm)
- Figure 10. China EPE Encapsulation Film Production (2021-2032) & (K Sqm)
- Figure 11. Japan EPE Encapsulation Film Production (2021-2032) & (K Sqm)
- Figure 12. EPE Encapsulation Film Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 15. World EPE Encapsulation Film Consumption Market Share by Region (2021-2032)
- Figure 16. United States EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 17. China EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 18. Europe EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 19. Japan EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 20. South Korea EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 21. ASEAN EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 22. India EPE Encapsulation Film Consumption (2021-2032) & (K Sqm)
- Figure 23. Producer Shipments of EPE Encapsulation Film by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for EPE Encapsulation Film Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for EPE Encapsulation Film Markets in 2025
- Figure 26. United States VS China: EPE Encapsulation Film Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: EPE Encapsulation Film Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: EPE Encapsulation Film Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers EPE Encapsulation Film Production Market Share 2025

Figure 30. China Based Manufacturers EPE Encapsulation Film Production Market Share 2025

Figure 31. Rest of World Based Manufacturers EPE Encapsulation Film Production Market Share 2025

Figure 32. World EPE Encapsulation Film Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World EPE Encapsulation Film Production Value Market Share by Type in 2025

Figure 34. Thick EPE

Figure 35. Thin EPE

Figure 36. World EPE Encapsulation Film Production Market Share by Type (2021-2032)

Figure 37. World EPE Encapsulation Film Production Value Market Share by Type (2021-2032)

Figure 38. World EPE Encapsulation Film Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 39. World EPE Encapsulation Film Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 40. World EPE Encapsulation Film Production Value Market Share by Structure in 2025

Figure 41. Three-layer Co-extruded EPE Film

Figure 42. Multi-layer Co-extruded EPE Film (?5 layers)

Figure 43. World EPE Encapsulation Film Production Market Share by Structure (2021-2032)

Figure 44. World EPE Encapsulation Film Production Value Market Share by Structure (2021-2032)

Figure 45. World EPE Encapsulation Film Average Price by Structure (2021-2032) & (US\$/Sq m)

Figure 46. World EPE Encapsulation Film Production Value by Core Materials, (USD Million), 2021 & 2025 & 2032

Figure 47. World EPE Encapsulation Film Production Value Market Share by Core Materials in 2025

Figure 48. EVA-POE-EVA Type EPE Film

Figure 49. POE Modified EPE Film

Figure 50. Others

Figure 51. World EPE Encapsulation Film Production Market Share by Core Materials (2021-2032)

Figure 52. World EPE Encapsulation Film Production Value Market Share by Core Materials (2021-2032)

Figure 53. World EPE Encapsulation Film Average Price by Core Materials (2021-2032) & (US\$/Sq m)

Figure 54. World EPE Encapsulation Film Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World EPE Encapsulation Film Production Value Market Share by Application in 2025

Figure 56. Double-Glass Module

Figure 57. N-type Solar Module

Figure 58. World EPE Encapsulation Film Production Market Share by Application (2021-2032)

Figure 59. World EPE Encapsulation Film Production Value Market Share by Application (2021-2032)

Figure 60. World EPE Encapsulation Film Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 61. EPE Encapsulation Film Industry Chain

Figure 62. EPE Encapsulation Film Procurement Model

Figure 63. EPE Encapsulation Film Sales Model

Figure 64. EPE Encapsulation Film Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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