

Global Bio-based Encapsulation Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-based Encapsulation Film market size is expected to reach \$ 8097 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

In 2025, the global production of bio-based encapsulation film reached 660,000 tons, with an average selling price of about US\$5,500 per ton, a gross profit margin of about 30%, and a single production line capacity of about 8,000 tons per year. Bio-based encapsulation films are a type of thin film material made from at least some renewable biomass raw materials (rather than traditional fossil fuels) through biological, chemical, and polymeric processes, used for encapsulation, protection, or bonding in specific fields. The upstream consists of biomass raw material suppliers, providing renewable resources such as corn, sugarcane, and starch; the midstream is the film manufacturing stage, which uses chemical synthesis and modification to produce bio-based polymer films such as PLA and PGA; the downstream is widely used in packaging, agricultural mulch films, photovoltaic modules, and other fields. The demand fundamentally stems from increasingly stringent global environmental policies and a growing awareness of sustainability among consumers. It is strongly driven by national 'plastic restriction' regulations and brand owners' ESG goals, with end consumers' preference for green packaging further fueling the demand for this renewable and biodegradable material as an alternative.

Key market drivers for bio-based encapsulation film: 1. Global energy transition and photovoltaic industry expansion: The vigorous promotion of solar energy by various countries has led to a surge in photovoltaic module production, directly driving demand for encapsulation films, a key encapsulation material. 2. Strong environmental policies and regulations: Policies such as 'dual carbon' targets and EU carbon tariffs are forcing

companies to reduce their product carbon footprint, making bio-based materials an important compliance option. 3. Green preferences in end-markets: Consumers and investors increasingly favor environmentally friendly products, making the use of bio-based materials an effective means for brands to enhance their ESG performance and market competitiveness. 4. Corporate sustainable development strategies: Leading companies in the industry chain are actively seeking and adopting low-carbon materials such as bio-based materials to build green supply chains and achieve their carbon neutrality commitments.

This report studies the global Bio-based Encapsulation Film production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Bio-based Encapsulation Film total production and demand, 2021-2032, (Kilotons)

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

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

Global Bio-based Encapsulation Film consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Bio-based Encapsulation Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Bio-based Encapsulation Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Bio-based Encapsulation Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Bio-based 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 Co.,

Ltd, Shanghai HIUV New Materials Co., Ltd, Jiangsu Sveck Photovoltaic New Materials Co., Ltd., Suzhou Saintyear Photovoltaic Technology Co., Ltd, Changzhou Betterial Film Technology Co., Ltd., Kingfa Sci. & Tech. Co., Ltd, 3M Company, Henkel AG & Co. KGaA, CGP Group, Mingguan New Materials Co., Ltd., 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 Bio-based Encapsulation Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Bio-based Encapsulation Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-based Encapsulation Film Market, Segmentation by Type:

Bio-based POE Film

Bio-based EVA Film

Bio-based EPE Film

Global Bio-based Encapsulation Film Market, Segmentation by Bio-based Content:

All-bio-based Adhesive Film

Hybrid-based Adhesive Film

Global Bio-based Encapsulation Film Market, Segmentation by Biodegradable Properties:

Bio-based PLA Film

Bio-based PBAT Film

Bio-based PHA Film

Global Bio-based Encapsulation Film Market, Segmentation by Application:

Photovoltaic Modules

Packaging Materials

Others

Companies Profiled:

Hangzhou First Applied Material Co., Ltd

Shanghai HIUV New Materials Co., Ltd

Jiangsu Sveck Photovoltaic New Materials Co., Ltd.

Suzhou Saintyear Photovoltaic Technology Co., Ltd

Changzhou Betterial Film Technology Co., Ltd.

Kingfa Sci. & Tech. Co., Ltd

3M Company

Henkel AG & Co. KGaA

CGP Group

Mingguan New Materials Co., Ltd.

Key Questions Answered:

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

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