

# Global Bio-based Encapsulation Film Market Growth 2026-2032

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## Abstracts

The global Bio-based Encapsulation Film market size is predicted to grow from US\$ 3551 million in 2025 to US\$ 8005 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Bio-based Encapsulation Film Industry Forecast” looks at past sales and reviews total world Bio-based Encapsulation Film sales in 2025, providing a comprehensive analysis by region and market sector of projected Bio-based Encapsulation Film sales for 2026 through 2032. With Bio-based Encapsulation Film sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-based Encapsulation Film industry.

This Insight Report provides a comprehensive analysis of the global Bio-based Encapsulation Film landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-based Encapsulation Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bio-based Encapsulation Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-based Encapsulation Film and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-based Encapsulation Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-based Encapsulation Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Bio-based POE Film

Bio-based EVA Film

Bio-based EPE Film

Segmentation by Bio-based Content:

All-bio-based Adhesive Film

Hybrid-based Adhesive Film

Segmentation by Biodegradable Properties:

Bio-based PLA Film

Bio-based PBAT Film

Bio-based PHA Film

Segmentation by Application:

Photovoltaic Modules

Packaging Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Bio-based Encapsulation Film market?

What factors are driving Bio-based Encapsulation Film market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-based Encapsulation Film market opportunities vary by end market size?

How does Bio-based Encapsulation Film break out by Type, by Application?

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