

Global Bio-based Encapsulation Film Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Encapsulation Film market size was valued at US\$ 3735 million in 2025 and is forecast to a readjusted size of US\$ 8097 million by 2032 with a CAGR of 11.7% during review period.

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 is a detailed and comprehensive analysis for global Bio-based Encapsulation Film market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-based Encapsulation Film market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Encapsulation Film market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Encapsulation Film market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Encapsulation Film market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-based Encapsulation Film

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-based Encapsulation Film market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Bio-based Encapsulation Film market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Bio-based POE Film

Bio-based EVA Film

Bio-based EPE Film

Market segment by Bio-based Content

All-bio-based Adhesive Film

Hybrid-based Adhesive Film

Market segment by Biodegradable Properties

Bio-based PLA Film

Bio-based PBAT Film

Bio-based PHA Film

Market segment by Application

Photovoltaic Modules

Packaging Materials

Others

Major players covered

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.

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bio-based Encapsulation Film product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Encapsulation Film, with price, sales quantity, revenue, and global market share of Bio-based Encapsulation Film from 2021 to 2026.

Chapter 3, the Bio-based Encapsulation Film competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Encapsulation Film breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Bio-based Encapsulation Film market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based Encapsulation Film.

Chapter 14 and 15, to describe Bio-based Encapsulation Film sales channel, distributors, customers, research findings and conclusion.

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