

# Global Seaweed-based Biodegradable Film Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GFD4070A5402EN.html>

Date: June 2026

Pages: 118

Price: US\$ 3,480.00 (Single User License)

ID: GFD4070A5402EN

## Abstracts

According to our (Global Info Research) latest study, the global Seaweed-based Biodegradable Film market size was valued at US\$ 121 million in 2025 and is forecast to a readjusted size of US\$ 180 million by 2032 with a CAGR of 5.8% during review period.

Seaweed-based degradable film is an eco-friendly green film material prepared by using natural seaweed extracts as the core raw materials, blended with plant-based additives and degradable polymer substrates through modification, blending and film-forming processes. It features good flexibility, barrier properties and biocompatibility, and can be rapidly degraded by microorganisms in the natural environment without pollution or residue. As an ideal alternative to traditional petroleum-based plastic films, it is widely applicable in food packaging, fresh food preservation, agricultural mulch and other fields, serving as a promising emerging bio-based material in the low-carbon circular economy. The global market size for seaweed-based biodegradable films reached \$118 million in 2025.

In the global application landscape of seaweed-based biodegradable films, food packaging holds the dominant position, leveraging its natural oxygen-barrier and moisture-retention properties to extend the shelf life of fresh and ready-to-eat produce while perfectly aligning with tightening environmental regulations. The cosmetics and personal care sector follows closely, where brands increasingly use seaweed-based films as a tangible expression of the 'clean beauty' philosophy to cultivate a premium brand image. Meanwhile, agricultural mulch films and seed coatings represent the fastest-growing segments, addressing the persistent problem of microplastic pollution at its source through their inherent biodegradability. The current competitive landscape is

characterized by a unique coexistence of Western technological innovation and Chinese manufacturing scale. A vanguard of Western startups, led by pioneering players, commands the technological high ground with novel material R&D and extensive patent portfolios, setting global trends. Concurrently, legacy packaging giants are rapidly securing their positions through capital-driven acquisitions and strategic investments. While Chinese enterprises have yet to establish widely recognized end-user brands, they possess an unassailable cost advantage in the upstream segments of alginate film raw materials and core processing, thanks to the nation's abundant local seaweed resources and a robust vertical supply chain. Looking forward, the steady tightening of global carbon reduction legislation and voluntary brand commitments to plastic reduction are injecting strong, predictable momentum into the industry. As industrial-scale refining and extrusion technologies mature, the currently significant production barriers are expected to gradually diminish, supporting a trajectory of sustained and robust market growth. The Asia-Pacific region, particularly East Asia, is poised to leverage its comprehensive industrial chain advantages to emerge as the world's largest hub for both the production and consumption of these sustainable materials.

This report is a detailed and comprehensive analysis for global Seaweed-based Biodegradable Film market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Feedstock 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 Seaweed-based Biodegradable Film market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Seaweed-based Biodegradable Film market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Seaweed-based Biodegradable Film market size and forecasts, by Feedstock and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Seaweed-based Biodegradable Film market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 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 Seaweed-based Biodegradable 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 Seaweed-based Biodegradable 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 Notpla, Sway, Noriware, Zerocircle, FlexSea, Biota, Roquette, Mingyue, Shehai, BOTECH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Seaweed-based Biodegradable Film market is split by Feedstock and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Feedstock, 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 Feedstock

Alginate-based films

Carrageenan-based films

Agar-based films

Fucoidan-based films

Ulvan-based films

Whole algae powder-based films

Others

#### Market segment by Degradation Methods

Compostable degradation

Soil degradation

Marine degradation

Freshwater degradation

Others

#### Market segment by Application

Food Packaging

Agricultural Sector

Biomedicine

Daily Consumer Goods

Industry & Environmental Protection

Others

#### Major players covered

Notpla

Sway

Noriware

Zerocircle

FlexSea

Biota

Roquette

Mingyue

Shehai

BOTEC

Kelpi

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 Seaweed-based Biodegradable Film product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Seaweed-based Biodegradable 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 Feedstock and by Application, with sales market share and growth rate by Feedstock, 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 Seaweed-based Biodegradable Film market forecast, by regions, by Feedstock, 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 Seaweed-based Biodegradable Film.

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

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