

Global Seaweed-based Biodegradable Film Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G08927D1BBA4EN.html>

Date: June 2026

Pages: 116

Price: US\$ 4,480.00 (Single User License)

ID: G08927D1BBA4EN

Abstracts

The global Seaweed-based Biodegradable Film market size is expected to reach \$ 180 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

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 studies the global Seaweed-based Biodegradable Film production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Seaweed-based Biodegradable Film total production and demand, 2021-2032, (Sq m)

Global Seaweed-based Biodegradable Film total production value, 2021-2032, (USD Million)

Global Seaweed-based Biodegradable Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Seaweed-based Biodegradable Film consumption by region & country, CAGR, 2021-2032 & (Sq m)

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

Global Seaweed-based Biodegradable Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Seaweed-based Biodegradable Film production by Feedstock, production, value,

CAGR, 2021-2032, (USD Million) & (Sq m)

Global Seaweed-based Biodegradable Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Seaweed-based Biodegradable 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Seaweed-based Biodegradable Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) by manufacturer, by Feedstock, 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 Seaweed-based Biodegradable Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Seaweed-based Biodegradable Film Market, Segmentation by Feedstock:

Alginate-based films

Carrageenan-based films

Agar-based films

Fucoidan-based films

Ulvan-based films

Whole algae powder-based films

Others

Global Seaweed-based Biodegradable Film Market, Segmentation by Degradation Methods:

Compostable degradation

Soil degradation

Marine degradation

Freshwater degradation

Others

Global Seaweed-based Biodegradable Film Market, Segmentation by Application:

Food Packaging

Agricultural Sector

Biomedicine

Daily Consumer Goods

Industry & Environmental Protection

Others

Companies Profiled:

Notpla

Sway

Noriware

Zerocircle

FlexSea

Biota

Roquette

Mingyue

Shehai

BOTEC

Kelpi

Key Questions Answered:

1. How big is the global Seaweed-based Biodegradable Film market?
2. What is the demand of the global Seaweed-based Biodegradable Film market?

3. What is the year over year growth of the global Seaweed-based Biodegradable Film market?
4. What is the production and production value of the global Seaweed-based Biodegradable Film market?
5. Who are the key producers in the global Seaweed-based Biodegradable Film market?
6. What are the growth factors driving the market demand?

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