

Starch Blended Biodegradable Polymer Market Report by Polymer Type (Biodegradable Starch, Durable Starch), End Use (Flexible Packaging, Agriculture and Horticulture, Rigid Packaging, Consumer Goods, and Others), and Region 2024-2032

<https://marketpublishers.com/r/SBB1A6913611EN.html>

Date: July 2024

Pages: 147

Price: US\$ 3,899.00 (Single User License)

ID: SBB1A6913611EN

Abstracts

The global starch blended biodegradable polymer market size reached US\$ 1,098.7 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,875.2 Million by 2032, exhibiting a growth rate (CAGR) of 5.9% during 2024-2032. The rising use of starch as a filler in polymers to enhance the biodegradability of polymer-based products, the growing consumer interest in renewable feedstock and biopolymers, and the widespread utilization of starch blended biodegradable polymers in the food packaging industry are some of the factors propelling the market.

A starch blended biodegradable polymer is an innovative material that combines the natural and renewable properties of starch with the versatility of synthetic polymers. These blends offer a sustainable alternative to traditional plastic materials, exhibiting improved biodegradability and reduced environmental impact. Starch acts as a filler, reinforcing the polymer structure and enhancing its mechanical properties. As a result, incorporating starch into the polymer matrix renders the resulting material biocompatible, biodegradable, and environmentally friendly in nature. Moreover, starch blended polymers can be processed using conventional techniques such as extrusion and injection molding, making them easily adaptable for various applications. The biodegradability of starch blended polymers allows for their safe disposal in natural environments, where microorganisms can break them down into non-toxic byproducts. This characteristic makes them ideal for single-use items like packaging materials, disposable cutlery, and agricultural films. It presents a promising solution for reducing plastic waste and promoting a sustainable future.

The global market is majorly driven by the stringent regulations on plastic waste management. In line with this, the rising consumer demand for eco-friendly products is significantly contributing to the market. With growing awareness regarding the negative impact of plastic pollution on the environment, consumers are actively seeking greener alternatives. Starch blended polymers meet this demand by providing biodegradable and compostable options for packaging, disposable products, and other applications. Furthermore, advancements in research and technology have led to improved properties and processing capabilities of starch blended biodegradable polymers. Manufacturers can tailor the material's characteristics to meet specific requirements, such as improved strength, flexibility, and heat resistance. This has expanded the potential applications of these polymers across various industries, including packaging, agriculture, textiles, and automotive.

Starch Blended Biodegradable Polymer Market Trends/Drivers:

Increasing government initiatives and support

The increasing government initiatives and support are creating a positive outlook for the market. Several governments worldwide have recognized the urgent need to address plastic waste and have implemented policies and regulations to encourage sustainable alternatives. These initiatives include incentives, subsidies, and tax benefits for manufacturers and consumers who adopt biodegradable materials. Furthermore, several government regulations and bans on single-use plastics have also created a favorable environment for the adoption of starch blended biodegradable polymers. These policies create a market demand for eco-friendly products and prompt industries to transition to sustainable materials. Additionally, government support in research funding and infrastructure development further fuels the market growth by encouraging innovation and expanding manufacturing capabilities.

Growing consumer awareness and preference for the product

The rising consumer awareness and preference for sustainable products are propelling the market. Consumers are becoming more conscious of plastic waste's environmental impact and actively seeking alternatives that minimize pollution and promote a greener lifestyle. The growing popularity of eco-friendly products and the green consumer movement have created an augmenting demand for packaging, utensils, and other everyday items made from starch blended biodegradable polymers. Consumers are willing to pay a premium price for products that align with their values of environmental sustainability and reducing plastic waste. Moreover, social media and online platforms

have significantly spread awareness about the benefits of starch blended biodegradable polymers. Information sharing and campaigns on these platforms have educated and influenced consumers, further driving the overall market growth.

Rapid advancements in manufacturing technology

Advancements in manufacturing technology are expected to offer numerous opportunities in the market. Extensive research and development efforts have led to the development of improved processing techniques and machinery, enabling efficient and cost-effective production of starch blended polymers. Furthermore, continual innovations in extrusion, injection molding, and film-blowing technologies have allowed manufacturers to scale up production, meet market demand, and reduce costs. These advancements have also enhanced the material's properties, making it more versatile and applicable in a wide range of industries. Moreover, the development of additives and compatibilizers specifically designed for starch blended polymers has improved their mechanical and thermal properties, making them more suitable for diverse applications.

Starch Blended Biodegradable Polymer Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global starch blended biodegradable polymer market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on polymer type and end use.

Breakup by Polymer Type:

Biodegradable Starch
Durable Starch

Biodegradable starch dominates the starch blended biodegradable polymer market

The report has provided a detailed breakup and analysis of the starch blended biodegradable polymer market based on the polymer type. This includes biodegradable starch and durable starch. According to the report, biodegradable starch represented the largest segment.

Biodegradable starch is derived from various renewable sources such as corn, wheat, or potatoes, that offer exceptional biodegradability. The key factor contributing to the market growth in this segment is the widespread utilization of biodegradable starch in

packaging materials, disposable cutlery, agricultural films, and other single-use products. The increasing awareness and demand for sustainable alternatives to conventional plastics have fueled the adoption of biodegradable starch-based products.

Moreover, biodegradable starch possesses advantageous properties such as good mechanical strength, flexibility, and thermal stability, making it versatile for various industries. Its low cost and abundance in nature also make it an attractive choice for both manufacturers and consumers. Additionally, stringent regulations and policies regarding plastic waste management and environmental protection have further propelled the sales of biodegradable starch. Governments and organizations worldwide are promoting sustainable materials, thus driving the demand for biodegradable starch-based products.

Breakup by End Use:

Flexible Packaging

Agriculture and Horticulture

Rigid Packaging

Consumer Goods

Others

Flexible packaging holds the largest share in the starch blended biodegradable polymer market

A detailed breakup and analysis of the starch blended biodegradable polymer market based on the end use have also been provided in the report. This includes flexible packaging, agriculture and horticulture, rigid packaging, consumer goods, and others. According to the report, flexible packaging accounted for the largest market share.

Flexible packaging offers numerous advantages, including versatility, lightweight nature, and excellent barrier properties. One of the key factors contributing to the market growth of flexible packaging is the rising demand from various industries such as food and beverage, pharmaceuticals, and personal care. Its ability to extend shelf life, preserve product freshness, and provide convenient handling has made it increasingly popular among manufacturers and consumers.

Furthermore, flexible packaging made from starch blended biodegradable polymers aligns with the growing global focus on sustainability. Consumers are becoming more conscious of the environmental impact of packaging waste, leading to a shift in

preference towards eco-friendly alternatives. Starch blended biodegradable polymers offer a renewable and biodegradable solution that addresses these concerns, thus driving the adoption of flexible packaging.

Moreover, government regulations and initiatives promoting sustainable packaging practices have also propelled the uptake of flexible packaging. Authorities worldwide are encouraging the use of environmentally friendly materials, offering incentives and regulations to promote the adoption of starch blended biodegradable polymers in packaging applications.

Breakup by Region:

Western Europe

North America

Asia Pacific

Others

Western Europe exhibits a clear dominance, accounting for the largest starch blended biodegradable polymer market share

The report has also provided a comprehensive analysis of all the major regional markets, which include Western Europe, North America, Asia Pacific, and others.

Western Europe is dominating the starch blended biodegradable polymer market share. The region has been at the forefront of environmental awareness and sustainability initiatives. Numerous governments across the region and businesses have strongly committed to reducing plastic waste and adopting eco-friendly alternatives. This has created a favorable environment for adopting starch blended biodegradable polymers, which are renewable, biodegradable, and have a lower environmental impact than traditional plastics.

Moreover, the growing preference for sustainable and environmentally friendly products among consumers is majorly augmenting the uptake of starch blended biodegradable polymer. The growing awareness regarding plastic pollution and the desire to make environmentally conscious choices have driven the demand for starch blended biodegradable polymers.

Competitive Landscape:

The top companies in the starch blended biodegradable polymer industry are investing

heavily in research and development to develop advanced starch blended biodegradable polymer formulations with enhanced properties and performance. By focusing on product improvement, they are introducing materials that meet various industries' specific requirements and applications. Furthermore, these companies actively engage in strategic partnerships and collaborations with other players in the value chain. By partnering with raw material suppliers, machinery manufacturers, and end-users, they can streamline the production process, ensure a consistent supply of materials, and expand their market reach. Moreover, top companies leverage their strong distribution networks and global presence to penetrate different geographical markets strategically. They establish partnerships with distributors and retailers, ensuring the widespread availability of starch blended biodegradable polymer products. Additionally, these companies heavily invest in marketing and promotional activities to educate consumers about the benefits of starch blended biodegradable polymers, thereby contributing to the product demand.

The report has provided a comprehensive analysis of the competitive landscape in the global starch blended biodegradable polymer market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Novamont S.p.A.
Rodenberg
Wuhan Huali
Nihon Cornstarch Corporation
Plantic Technologies
DuPont
BASF
Lactel Absorbable Polymers
Balson Industries
Tryeco

Recent Developments:

In October 2019, Novamont announced its technological partnership with Saes Group for highly innovative solutions. They have partnered to develop solutions to meet the increasing demand for materials with lower environmental impact and high functional performance.

In May 2021, Plantic Technologies announced the launch of Renewably Sourced and Recyclable Plantic eco Plastic R at the IFFA Trade Fair.

In December 2019, DuPont signed an agreement to acquire Desalitech Ltd. This acquisition will provide the company with a robust portfolio of technologies to meet

current and future challenges while advancing its corporate commitment to sustainability.

Key Questions Answered in This Report

1. What is the market size for the global starch blended biodegradable polymer market?
2. What are the global starch blended biodegradable polymer market drivers?
3. What are the key industry trends in the global starch blended biodegradable polymer market?
4. What is the impact of COVID-19 on the global starch blended biodegradable polymer market?
5. What is the global starch blended biodegradable polymer market breakup by end-use?
6. What are the major regions in the global starch blended biodegradable polymer market?
7. Who are the key companies/players in the global starch blended biodegradable polymer market?

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