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Global Markets and Technologies for Bioplastics

https://marketpublishers.com/r/G5C21150E95EN.html
Date: November 2021
Pages: 308
Price: US$ 2,750.00 (Single User License)
ID: G5C21150E95EN

Abstracts

Report Scope:

This report will cover the bioplastics industry. Definitive and detailed estimates and forecasts of the global market are provided, followed by a detailed analysis of the regions, applications, and on-going trends.

The focus of this report is on plastics made from renewable resources such as biomass or food crops. There is also some potential development of bioplastics from animal resources. Plastics that could be produced from waste CO2 are also reviewed because of their potential impact on bioplastics, but their data are not included in the forecasts presented here. Bioplastics are further defined here as polymer materials that are produced by chemically or biologically synthesizing materials that contain renewable organic materials. Natural organic materials that are not chemically modified (e.g., wood composites are excluded). The report includes the use of renewable resources to create monomers that replace petroleum-based monomers such as feedstocks produced from sugarcane that are used to manufacture polyester and polyethylene. Ethanol, a major product in Brazil, is one small chemical step from ethylene.

This report covers the technological, economic, and business considerations of the bioplastics industry, with analyses and forecasts provided for global markets. Included in the report are descriptions of market forces relevant to the bioplastics industry and their areas of application.

The report focuses on the following resin chemistries -

Polylactic acid.

Thermoplastic starch.

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Biopolyamides (nylons).

Polyhydroxyalkanoates.

Biopolyols/polyurethane.

Cellulosics.

Biopolytrimethylene terephthalate.

Biopolyethylene.

Biopolyethylene terephthalate.

Polybutylene succinate.

Biodegradable and photodegradable polymers made from petrochemical feedstocks are not included. Other renewable resin chemistries such as collagen and chitosan are covered but in less detail as their roles are not well developed.

This report considers the impact of COVID-19. In 2020, the growth rate of manufacturing industry around the world was severely affected by the pandemic. The presently developing COVID-19 pandemic has currently shrunken the progress of every economy. In addition to taking measures to lock down their respective countries to contain the spread of the coronavirus, especially in affected cities, various governments around the world are also taking the measures necessary to contain the economic slowdown.

Estimated values used are based on manufacturers' total revenues. Projected and forecasted revenue values are in constant U.S. dollars (2020) unadjusted for inflation.

Report Includes:

45 data tables and 72 additional tables

An updated review of the global market for bioplastics and related technologies

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Analyses of the global market trends, with data from 2020, estimates for 2021 and projections of compound annual growth rates (CAGRs) through 2026

Evaluation and forecast the overall bioplastics market size in value and volumetric terms, and corresponding market share analysis by product, application, technology and region

Highlights of emerging technology trends, opportunities and gaps estimating current and future demand for bioplastic materials, and impact of COVID-19 on the progress of this market

Identification of the companies best positioned to meet this demand owing to their proprietary technologies, new product launches, and other strategic alliances

Discussion of industry value chain analysis, demand-supply gap, and factors driving the growth of market for polymer materials

Updated list of mergers, acquisitions, product launch, divestiture, achievements taken place in recent years

Competitive landscape of the major players operating within the bioplastics market, and their global rankings and company share analysis

Detailed description of updated company profiles along with latest developments and strategies, including Avient Corp., BASF, Danimer Scientific, Dow Inc., JSR Corp., Teijin Ltd. and Toray Industries Inc.

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