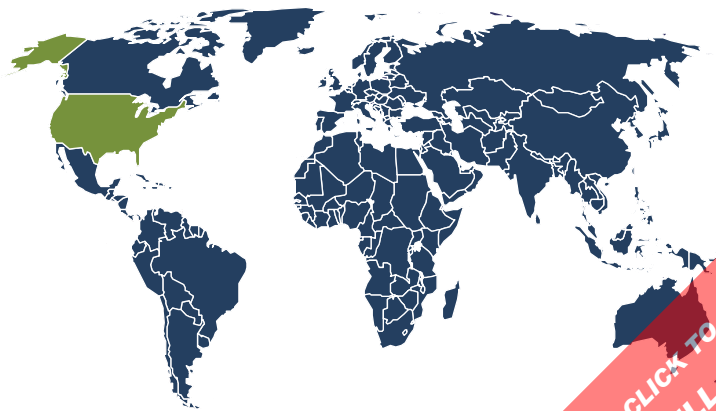




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Bioplastic Resins: United States

November 2013



Highlights

Industry Overview

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Environmental and Regulatory Factors | Global Overview

Demand Forecasts

Market Environment | Product Forecasts | Market Forecasts

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ABOUT THIS REPORT

Scope & Method

This report forecasts US bioplastic resin demand and production in metric tons to 2017. The terms *bioplastic resins* and *bioplastics* are used interchangeably in this report. Total demand is segmented in terms of:

- polylactic acid (PLA)
- starch-based resins
- biobased polyamide
- biobased polyethylene (PE)
- polyester bioplastics
- other bioplastics such as cellulose-based resins and polyhydroxyalkanoates (PHAs).

Only base plastic resins are included in demand totals; coatings, adhesives, composites, compounds, and finished products are not considered. Oxo-biodegradable plastics, which use additives to promote biodegradation, are not covered within the scope of this report because they are not accepted as fully biodegradable by international standards, and they do not compost satisfactorily in actively managed compost facilities. Cellophane, a cellulose-based packaging film, is also excluded.

For biobased resins, it should be noted that only plastics derived entirely from biobased raw materials are included in demand totals. A number of partially biobased plastics on the commercial market are excluded for the purposes of this report, including plastics produced from multiple monomers where only one monomer is plant-based and the others are petrochemical-based.

Total demand is also segmented by market as follows:

- nonpackaging
- packaging.

To illustrate historical trends, total demand is provided in an annual series from 2002 to 2012; production and the various demand segments are reported at five-year intervals for 2007 and 2012. Forecasts emanate from the identification and analysis of pertinent statistical relationships and other historical trends/events as well as their expected progression/impact over the forecast period. Changes in quantities between reported years of a given total or segment are typically provided in terms of five-year compound annual growth rates (CAGRs). For the sake of brevity, forecasts are generally stated in smoothed CAGR-based descriptions to the forecast year, such as “demand is projected to rise 3.2% annually through 2017.” The result of any particular year over that period, however, may exhibit volatility and depart from a smoothed, long-term trend, as

historical data typically illustrate.

Key macroeconomic indicators are also provided at five-year intervals with CAGRs for the years corresponding to other reported figures. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

Sources

Bioplastic Resins: United States is based on [World Bioplastics](#), a comprehensive industry study published by The Freedonia Group in November 2013. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- The Freedonia Group Consensus Forecasts dated June 2013 and August 2013
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325211	Plastics Material and Resin Manufacturing	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
325991	Custom Compounding of Purchased Resins	3087	Custom Compounding of Purchased Plastics Resins

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