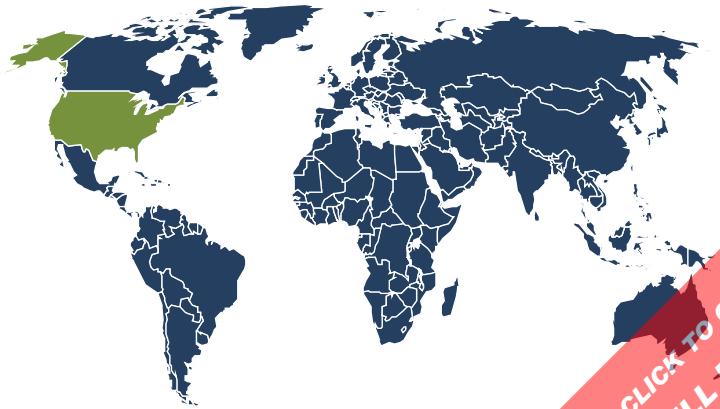




Freedonia Focus Reports
US Collection

Natural Polymers: United States

May 2016



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Trade
Environmental and Regulatory Factors

Segmentation and Forecasts

Types | Markets

Industry Structure

Industry Composition and Characteristics | Companies Cited

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ABOUT THIS REPORT

Scope & Method

This report forecasts US natural polymer demand in US dollars at the manufacturers' level to 2020. Total demand is segmented by type in terms of:

- cellulose ethers
- exudate and vegetable gums
- starch and fermentation polymers
- protein-based polymers
- marine polymers
- other types such as pectin, natural phenolics, and shellac.

Excluded from the scope of this report are large volume commodities (such as latex and lignin), commodity-type nonwovens (eg, rayon), inexpensive adhesives (eg, starch and animal glue), and nutritive foodstuffs (such as wheat gluten and soy protein), as well as bio-based conventional polymers (eg, bio-based polyethylene and bio-based polyethylene terephthalate).

Total demand is also segmented by market as follows:

- food and beverage
- medical
- oilfield
- cosmetics and toiletries
- other markets such as coatings, inks, construction, and packaging.

To illustrate historical trends, total demand in both value and volume terms is provided in annual series from 2005 to 2015; the various segments are reported at five-year intervals for 2010 and 2015.

This report quantifies trends in various measures of growth. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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

Natural Polymers: United States (FF55014) is based on [Natural Polymers](#), a comprehensive industry study published by The Freedonia Group in May 2016. 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
- indicator forecasts by The Freedonia Group
- 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	
311221	Wet Corn Milling	2046	Wet Corn Milling
325199	All Other Basic Organic Chemical Mfg		Plastics Materials, Synthetic Resins, and
325211	Plastics Material and Resin Mfg	2821	Nonvulcanizable Elastomers
		2869	Industrial Organic Chemicals, NEC

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RESOURCES

The Freedonia Group

<i>3415 Natural Polymers</i> , May 2016	www.freedoniagroup.com
Related Industry Studies	see study contents
<i>3390 Medical & Dental Adhesives & Sealants</i> , March 2016	see study contents
<i>3378 Disposable Medical Supplies</i> , February 2016	see study contents
<i>3377 World Adhesives & Sealants</i> , January 2016	see study contents
<i>3352 Oilfield Chemicals</i> , November 2015	see study contents
<i>3317 Paint & Coatings</i> , August 2015	see study contents
<i>3257 Adhesives & Sealants</i> , February 2015	see study contents
Related Focus Reports	
<i>Adhesives & Sealants: United States</i>	see report contents
<i>Medical & Dental Adhesives & Sealants: United States</i>	see report contents
<i>Medical Equipment & Supplies: United States</i>	see report contents
<i>Oilfield Chemicals: United States</i>	see report contents
<i>Pharmaceuticals: United States</i>	see report contents
<i>Thermoplastic Elastomers: United States</i>	see report contents
<i>Thermoplastic Polyester Resins: United States</i>	see report contents
Freedonia Custom Research	see capabilities

Trade Publications

<i>Food Ingredients First</i>	www.foodingredientsfirst.com
<i>ICIS Chemical Business</i>	www.icis.com
<i>IHS Chemical Week</i>	www.chemweek.com
<i>Milling & Baking News</i>	www.bakingbusiness.com
<i>SpecialChem</i>	www.specialchem.com
<i>Plastics News</i>	www.plasticsnews.com
<i>Prepared Foods</i>	www.preparedfoods.com

Agencies & Associations

Biodegradable Products Institute	www.bpiworld.org
Federal Trade Commission	www.ftc.gov
Occupational Safety & Health Administration	www.osha.gov
United States Census Bureau	www.census.gov
United States Consumer Product Safety Commission	www.cpsc.gov
United States Department of Agriculture	www.usda.gov
United States Environmental Protection Agency	www.epa.gov
United States Food and Drug Administration	www.fda.gov
United States International Trade Commission	www.usitc.gov

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