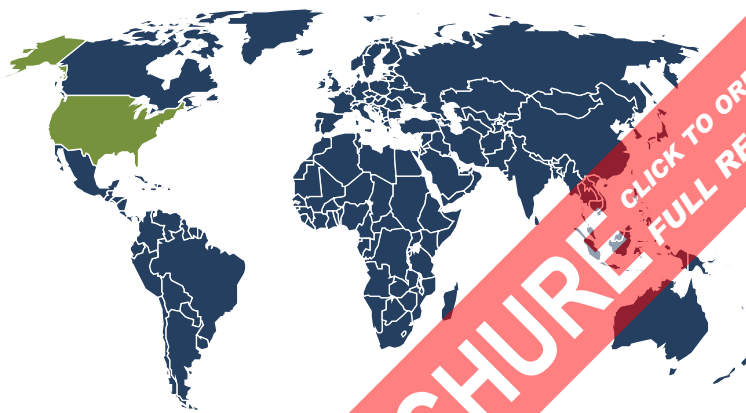




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Polyethylene: United States

December 2018



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About This Report

Scope

This report forecasts to 2022 US polyethylene demand and shipments in pounds, demand in nominal US dollars at the producer level, and prices. Total demand in volume and value terms is segmented by resin type in terms of:

- high-density polyethylene (HDPE)
- linear low-density polyethylene (LLDPE)
- low-density polyethylene (LDPE)

Total demand in volume terms is also segmented by market as follows:

- packaging
- consumer and institutional products
- building products
- other markets, such as electrical and electronic products, industrial goods, and transportation equipment

To illustrate historical trends, total demand, total shipments, the various segments, prices, and trade are provided in annual series from 2007 to 2017.

Ultra-high-molecular-weight polyethylene is excluded from the scope of this report, as are other polyethylene copolymers such as ethylene vinyl acetate (EVA) and polyolefin elastomers/plastomers. Recycled polyethylene is also excluded. Re-exports of polyethylene are excluded from demand and trade figures.

Key macroeconomic indicators are also provided with quantified trends. 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

Polyethylene: United States (FF55017) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

About This Report

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

Industry Codes

Table 9 | NAICS & SIC Codes Related to Polyethylene

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
325211	Plastics Material and Resin Manufacturing	2671	Packaging Paper and Plastics Film, Coated and Laminated
326111	Plastics Bag and Pouch Manufacturing	2673	Plastics, Foil, and Coated Paper Bags
326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing	3081	Unsupported Plastics Film and Sheet
326121	Unlaminated Plastics Profile Shape Mfg	3082	Unsupported Plastics Profile Shapes
326122	Plastics Pipe and Pipe Fitting Manufacturing	3083	Laminated Plastics Plate, Sheet, and Profile Shapes
326130	Laminated Plastics Plate, Sheet (except Packaging, and Shape Manufacturing	3084	Plastics Pipe
		3089	Plastics Products, NEC

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global

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data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. 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. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. 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.

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Polypropylene: United States
Polystyrene: United States
Polyurethane: United States
Polyvinyl Chloride: United States
Pouches: United States

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Trade Publications

IHS Chemical Week
Journal of Plastic Film & Sheeting
Plastics News
Plastics Technology
Plastics Today
Plastics & Rubber Weekly
Rubber & Plastics News

Agencies & Associations

American Chemistry Council
American Water Works Association
The Association of Plastic Recyclers
PE100+ Association
Plastics Pipe Institute
Plastics Industry Association
US Census Bureau
US Environmental Protection Agency
US International Trade Commission