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Global Plastic Pipe

December 2020



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About This Report

Scope

This report forecasts to 2024 global demand for plastic pipe by resin in metric tons, market in meters, and major world region in metric tons. Resin segments include:

- polyvinyl chloride (PVC)
- polyethylene
- other resins such as acrylonitrile-butadiene-styrene (ABS), chlorinated PVC (CPVC), and fiberglass

Reported markets encompass:

- construction
- energy
- agricultural
- industrial/structural/mechanical

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, resin, market, and regional demand (including resin and market segments) are provided for 2009, 2014, and 2019. Finally, global production in metric tons is segmented by major world region and provided for 2009, 2014, 2019, and 2024.

Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Global Plastic Pipe (FW60034) is based on [a comprehensive industry study](#) published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- 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 10 | NAICS & SIC Codes Related to Plastic Pipe

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
326122	Plastics pipe and pipe fitting manufacturing	3084	Plastics pipe

Source: US Census Bureau

Table 11 | HS Codes Related to Plastic Pipe

HS Code	Definition
3917.21	Tubes, pipes, and hoses, rigid, of polymers of ethylene
3917.22	Tubes, pipes, and hoses, rigid, of polymers of propylene
3917.23	Tubes, pipes, and hoses, rigid, of polymers of vinyl chloride
3917.29	Tubes, pipes, and hoses, rigid, of plastics nesoi
3917.31	Flexible tubes, pipes, and hoses, having a minimum burst pressure of 27.6 mpa
3917.33	Flexible, not reinforced, with fittings

Note: 8- and 10-digit codes are part of the US HTS trade code system

Source: United Nations Statistics Division

Table 12 | NACE Code Related to Plastic Pipe

NACE Code	Definition
22.21	Manufacture of plastic plates, sheets, tubes and profiles

Source: European Commission

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

About This Report

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 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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Resources

The Freedonia Group

Global Plastic Pipe

Freedonia Industry Studies

Behind the Wall Plumbing

Drain, Waste, & Vent Pipe

Global Electric Power Transmission & Distribution Equipment

Global Industrial Valves

Global Plumbing

Global Pumps Market

Global Water Treatment Equipment & Chemicals

Lawn & Garden Watering Products

Pipe Products & Markets

Plastic Pipe

Plumbing Fixtures & Fittings

Precast Concrete Products

Freedonia Focus Reports

Construction: United States

Copper Pipe: United States

Natural Gas: United States

Oil & Natural Gas Pipe: United States

Pipe: United States

Plastic Pipe: United States

Plastics Processing Machinery: United States

Polyethylene: United States

Polypropylene: United States

Polyvinyl Chloride: United States

Potable Water Pipe: United States

Water: United States

Freedonia Custom Research

Trade Publications

Builder

Engineering News-Record

Oil & Gas Journal

Modern Plastics

Plastics News

Plumbing & Mechanical

Agencies & Associations

The European Plastic Pipe & Fittings Association (TEPPFA)

Eurostat

Japan PVC Pipe & Fittings Association

Organisation for Economic Co-operation and Development

Plastic Pipe and Fittings Association

Plastics Pipe Institute (a division of the Society of the Plastics Industry)

Uni-Bell PVC Pipe Association

United Nations Comtrade

United States Census Bureau

United States International Trade Commission

World Bank

World Customs Organization