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Fiber-Reinforced Plastic Composites: United States

December 2019



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About This Report

Scope

This report forecasts to 2023 US fiber-reinforced plastic (FRP) composites demand in pounds. Total demand is segmented by resin in terms of:

- thermoset
- thermoplastic

Total demand is also segmented by market as follows:

- construction
- motor vehicles
- marine
- computer and electronic
- appliances
- electrical equipment
- wind
- other markets such as aerospace equipment, consumer durables, and medical devices

To illustrate historical trends, total demand and the various segments are provided in annual series from 2008 to 2018.

As defined in this report, reinforced plastics are combinations of polymer resins and reinforcing fibers, including short fibers, chopped fibers, and fabric reinforcements. Data in this report include the weight of the basic resins, the reinforcing fibers, and other fillers or additives. The words “fiber-reinforced plastic composites”, “reinforced plastics”, and “composites” are used synonymously. Both captive and merchant consumption are included in the data.

Key macroeconomic indicators are also provided with quantified trends. 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

Fiber-Reinforced Plastic Composites: United States (FF55051) 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

About This Report

- 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

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

Industry Codes

Table 5 | NAICS & SIC Codes Related to Fiber-Reinforced Plastic Composites

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
325211	Plastics Material and Resin Mfg	2821	Plastics Materials and Resins

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 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

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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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Small Kitchen Appliances: United States
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Trade Publications

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Composites Manufacturing
CompositesWorld
ICIS Chemical Business
JEC Composites
Plastics News
Plastics Technology
PlasticsToday
Reinforced Plastics

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Windpower Engineering & Development

Agencies & Associations

American Chemistry Council

American Composites Manufacturers Association

American National Standards Institute

American Society of Mechanical Engineers

American Wind Energy Association

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Fiberglass Tank & Pipe Institute

International Association of Plastics Distribution

National Fire Protection Association

Occupational Safety and Health Administration

Plastics Industry Association

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