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Thermoplastic Elastomers: United States

May 2018



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About This Report

Scope & Method

This report forecasts to 2022 US thermoplastic elastomer (TPE) demand and production in metric tons. Total TPE demand is also forecasted to 2022 in US dollars at the manufacturer level. Total demand by volume is segmented by product in terms of:

- thermoplastic polyolefins
- styrenic block copolymers
- polyolefin elastomers
- thermoplastic vulcanizates
- other products such as thermoplastic polyurethanes and copolyester elastomers

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

- motor vehicles
- asphalt and roofing
- adhesives, sealants, and coatings
- consumer goods
- other markets such as industrial products, packaging, and medical products

To illustrate historical trends, total demand by volume is provided in annual series from 2007 to 2017; total production, total demand by value, and the various segments are reported at five-year intervals for 2007, 2012, and 2017.

For the purposes of this report, a TPE is defined as any thermoplastic material that exhibits elastomeric properties; TPEs offer the functional performance characteristics of thermoset rubber, but are processed using the methods and machinery of rigid thermoplastics. Styrenic block copolymers that do not exhibit elastomeric properties (i.e., high styrene products that contain roughly 60% or more styrene) are excluded from this report's scope.

This report 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.

About This Report

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

Thermoplastic Elastomers: United States (FF50015) is based on [Global Thermoplastic Elastomers Market](#), 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 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 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 7 | Industry Codes Related to Thermoplastic Elastomers

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
325211	Plastics Material and Resin Manufacturing	2821	Plastics Materials, Synthetic and Resins, and Nonvulcanizable Elastomers
325212	Synthetic Rubber Manufacturing	2822	Synthetic rubber

Source: US Census Bureau

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Resources

The Freedonia Group

Global Thermoplastic Elastomers, May 2018

Freedonia Industry Studies

Adhesives & Sealants in the US, April 2018

Global Industrial Rubber Products Market, February 2018

Silicones Market in the US, February 2018

Global Plastics Processing Machinery, January 2018

North America Automotive Aftermarket, November 2017

Nonwovens Market in the US, August 2017

Global Silicones Market, June 2017

Global Flame Retardants Market, February 2017

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Rubber: United States

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United States Census Bureau

United States International Trade Commission