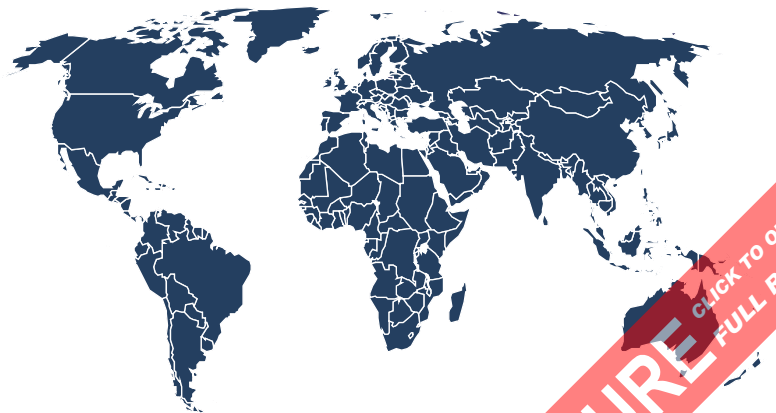




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# Global Thermoplastic Elastomers

September 2020



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# About This Report

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## Scope

This report forecasts to 2024 global demand for thermoplastic elastomers (TPEs) by product, market, and major world region in metric tons. Product segments include:

- styrenic block copolymers (SBCs)
- thermoplastic polyolefins (TPOs)
- polyolefin elastomers (POEs)
- thermoplastic polyurethanes (TPUs)
- other products such as thermoplastic vulcanizates (TPVs), copolyester elastomers (COPEs), and specialty TPEs

Reported markets encompass:

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

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

To illustrate historical trends, world, product, market, and regional demand (including product and market segments) are provided for 2009, 2014, and 2019.

SBCs that do not exhibit elastomeric properties (i.e., high styrene products that contain roughly 60% or more styrene) are excluded from the scope of this report.

While TPOs and TPVs are “polyolefin elastomers” in a technical sense, they are defined separately for the purposes of this report. Furthermore, vulcanized olefin elastomers such as EPDM and ethylene-propylene rubber are not TPEs and are thus excluded.

Compounds with vulcanized elastomers are considered to be TPVs rather than TPOs. Various sources and manufacturers differ on the degree of vulcanization required to define an olefinic TPE as a TPV, so estimates of current global demand can vary.

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 Thermoplastic Elastomers* (FW50015) 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 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 9 | NAICS & SIC Codes Related to Thermoplastic Elastomers**

NAICS/SCIAN 2017		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

**Table 10 | HS Codes Related to Thermoplastic Elastomers**

HS Code	Definition
390140	Ethylene polymers; in primary forms, ethylene-alpha-olefin copolymers
390230	Propylene; other olefin polymers; propylene copolymers in primary forms
390319	Styrene polymers; (other than expansible polystyrene), in primary forms
390799	Polyesters; saturated, in primary forms
390950	Polyurethanes; in primary forms
400219	Rubber; synthetic, styrene-butadiene rubber and carboxylated styrene-butadiene rubber, other than latex, in primary forms, or in plates, sheets, or strip
400249	Rubber; synthetic, chloroprene (chlorobutadiene) rubber, other than latex, in primary forms
400280	Rubber; mixtures of natural and synthetic rubbers, in primary forms or in plates, sheets, or strip

Source: United Nations Statistics Division

# 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 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 Thermoplastic Elastomers*

### Freedonia Industry Studies

*Adhesives & Sealants in the US*

*Commercial Roofing*

*Disposable Medical Supplies in the US*

*Gaskets & Seals*

*Global Adhesives & Sealants*

*Global Disposable Medical Supplies*

*Global Gaskets & Seals*

*Global Nonwovens*

*Global Pressure Sensitive Tapes*

*Global Roofing*

*Global Silicones*

*Liquid Silicone Rubber*

*Pressure Sensitive Tapes in the US*

*Residential Roofing*

*Roofing*

*Silicones Market in the US*

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*Adhesives & Sealants: United States*

*Commercial Roofing: United States*

*Disposable Medical Supplies: United States*

*Gaskets & Seals: United States*

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*Global Disposable Medical Supplies*

*Global Gaskets & Seals*

*Global Nonwovens*

*Global Pressure Sensitive Tapes*

*Global Roofing*

*Global Silicones*

*Healthcare: United States*

*Kidney Dialysis Centers: United States*

*Liquid Silicone Rubber: United States*

*Medical Equipment & Supplies: United States*

*Medical Services: United States*

*Nonwovens: United States*

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*Pressure Sensitive Tapes: United States*

*Residential Roofing: United States*

*Roofing: United States*

*Silicones: United States*

## **Freedonia Custom Research**

### **Trade Publications**

*3DPrint.com*

*Automotive News*

*Automotive World*

*European Rubber Journal*

*Japan Rubber Weekly*

*Medical Plastics News*

*NACE (Nomenclature Statistique des Activités Économiques)*

*Plastics News*

*Rubber & Plastics News*

### **Agencies & Associations**

European Commission

United Nations Statistics Division

United States Census Bureau

United States International Trade Commission