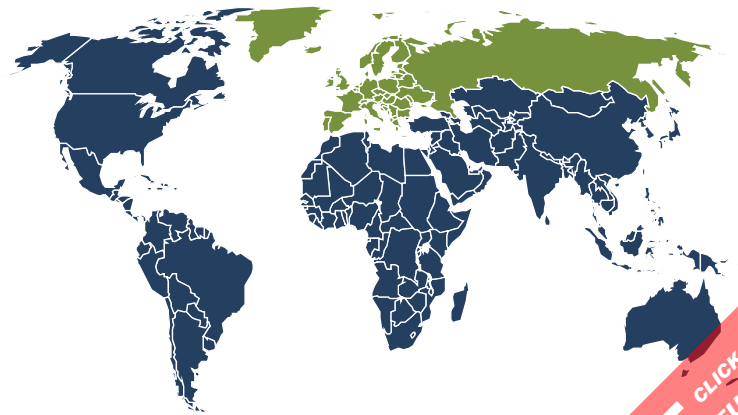




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# Thermoplastic Elastomers: Europe

September 2020



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# About This Report

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## Scope

This report forecasts to 2024 thermoplastic elastomer (TPE) European demand and production in metric tons. Total demand is segmented by product in terms of:

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

Total demand is also segmented by market as follows:

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

To illustrate historical trends, total demand is provided in annual series from 2009 to 2019; production and the various segments are reported at five-year intervals for 2009, 2014, and 2019.

For the purposes of this report, a TPE is defined as any thermoplastic material that exhibits elastomeric properties; TPEs therefore offer the functional performance characteristics of thermoset rubber, but are processed using the methods and machinery of rigid thermoplastics.

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 ethylene propylene diene monomer (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.

## 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.

For the purposes of this report, Europe encompasses the following countries:

**Table 6 | Countries in Western Europe**

Andorra	Gibraltar	Jersey	Saint Pierre and Miquelon
Austria	Greece	Liechtenstein	San Marino
Belgium	Greenland	Luxembourg	Spain*
Channel Islands	Guernsey	Malta	Sweden
Faeroe Islands	Iceland	Monaco	Switzerland
Finland	Ireland	Netherlands	United Kingdom*
France*	Isle of Man	Norway	Vatican City
Germany*	Italy*	Portugal	

\*Major TPE markets

Source: The Freedonia Group

**Table 7 | Countries in Eastern Europe**

Albania	Hungary	Romania
Belarus	Latvia	Russia*
Bosnia and Herzegovina	Lithuania	Serbia
Bulgaria	Macedonia	Slovakia
Croatia	Moldova	Slovenia
Czech Republic	Montenegro	Ukraine
Estonia	Poland	

\*Major TPE market

Source: The Freedonia Group

## Sources

*Thermoplastic Elastomers: Europe* (FE50015) is based on *Global Thermoplastic Elastomers*, 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

## About This Report

- 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 8 | 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 Statistic Division

**Table 9 | NACE Codes Related to Thermoplastic Elastomers**

NACE Code	Definition
20.16	Manufacture of plastics in primary forms
20.17	Manufacture of synthetic rubber in primary forms

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

## About This Report

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*

### Freedonia Focus Reports

*Adhesives & Sealants: United Kingdom*

*Commercial Building Construction: United States*

*Construction: United States*

*COVID-19 Market Impact Analysis*

*Disposable Medical Supplies: United Kingdom*

*Gaskets & Seals: United States*

*Global Demographics*

*Global Macroeconomy*

*Healthcare: United States*

*Housing: United States*

*Industrial Rubber Products: United Kingdom*

*Manufacturing: United States*

*Medical Equipment & Supplies: United States*

*Medical Services: United States*

*Motor Vehicles: United States*

*Roofing: United Kingdom*

*Rubber Processing Chemicals: Europe*



## About This Report

*Silicones: United States*

**Freedonia Custom Research**

### **Trade Publications**

*Automotive News*

*Automotive World*

*European Rubber Journal*

*Medical Plastics News*

*NACE (Nomenclature Statistique des Activités Économiques)*

*Plastics News*

*Rubber & Plastics News*

*3DPrint.com*

### **Agencies & Associations**

European Chemicals Agency

European Commission

European Plastics Distributors Association

European Tyre & Rubber Manufacturers' Association

Eurostat

International Monetary Fund

Organisation for Economic Co-Operation and Development

PlasticsEurope

Society of Chemical Industry

United Nations Statistics Division

World Bank