



Market Analytics: Styrenics - 2023

Market Analytics: Styrenics - 2023 is one in a series of reports published as part of NexantECA's Markets & Profitability program.

Market Analytics: Styrenics - 2023 report provides an in-depth analysis of the following products :

- Styrene
- Polystyrene (GPPS/HIPS)
- Expandable Polystyrene (EPS)
- Acrylonitrile Butadiene Styrene (ABS)
- Styrene Butadiene Rubber (SBR)
- Other Styrene Derivatives

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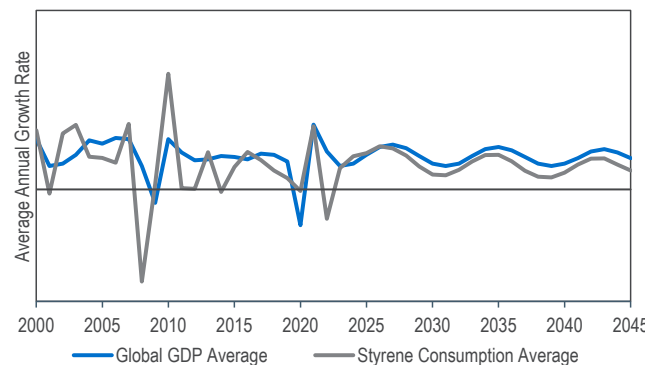
Along with the written report, NexantECA's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

Report Abstract:

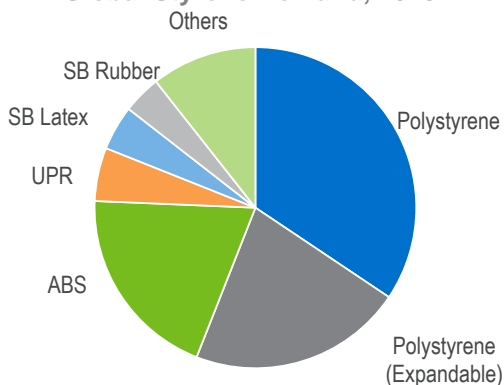
The main use of styrene is in the production of polystyrene (PS), a commodity polymer with a broad range of end-uses. There are two main types of polystyrene: general purpose (GPPS), and high impact (HIPS). HIPS contains a small proportion of butadiene rubber, giving it higher strength and better impact resistance. GPPS is normally used in the transparent or "crystal" form, or foamed. GPPS accounts for slightly more than half of the market, and is mainly used in disposable packaging, transparent containers and foamed applications, while HIPS is used for housings of electrical appliances and for refrigerator internal panels.

The second largest use of styrene is the production of expandable polystyrene (EPS). EPS is a form of polystyrene with a propellant such as pentane dissolved in it. On heating, the EPS granules expand rapidly into a foam structure, and EPS is therefore useful in applications requiring a rigid, light and insulating material. Its largest use is in the production of foam boards for buildings insulation, and it is widely used to create moulded shapes for packaging fragile goods, such as TV sets, and in foam cups for hot drinks. GPPS can also be blown into foam with the use of a propellant, while EPS is distinguished by having a hydrocarbon propellant dissolved in the granules themselves.

Global Styrene Consumption Growth
million tons



Global Styrene Demand, 2023



The third largest consumer of styrene is the polymer acrylonitrile butadiene styrene (ABS), a high-volume engineering polymer that is favoured for its strength, wear resistance, and attractive finish. ABS components are widely used in automotive applications, housings for electrical appliances and various household products. ABS is also widely used as a copolymer with polycarbonate for higher-end applications. Although some transparent ABS is produced, it is a small sector of the market, and ABS is generally non-transparent and coloured. ABS produced by the "mass" process is a lower cost material than "emulsion" process ABS, although it is also marketed in some higher priced applications where its surface characteristics (matte instead of gloss) are desirable.

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- A. Methodology
- B. Technology

Chapters 3 – 8 are segmented by key regions:

- North America
- South America
- Western Europe
- Central Europe
- Eastern Europe
- Middle East
- Africa
- Asia Pacific

Subscription Details:

Subscription to **Market Analytics: Styrenics - 2023** includes:

- 12 month access via the NexantECA website, to:
 - Unlimited downloads of PDF reports
 - Downloadable data in Excel from the Online Database
- Webinar
- Consultation time with the project team

Customized subscriptions are also available.

Each region/country is further segmented by:

- **Consumption:** Assesses historic and forecast consumption; forecasts are based on projections of end use and economic activity.
- **Supply:** Includes a list of all producers, their production capacity, location, etc., and discussion of the status of new projects.
- **Supply, Demand and Trade:** Provides historical analysis and forecasts to 2045 of consumption, production, imports/exports, inventory build-up/decline, capacity and capacity utilization.

This analysis will identify the issues shaping the industry, as well as provide an independent appraisal of the market.

For related analysis, please refer to:

[Profitability and Price Forecasts: Styrenics](#)
[Quarterly Business Analysis](#)

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