Polyethylene Terephthalate (PET) Bottle-Grade Resins

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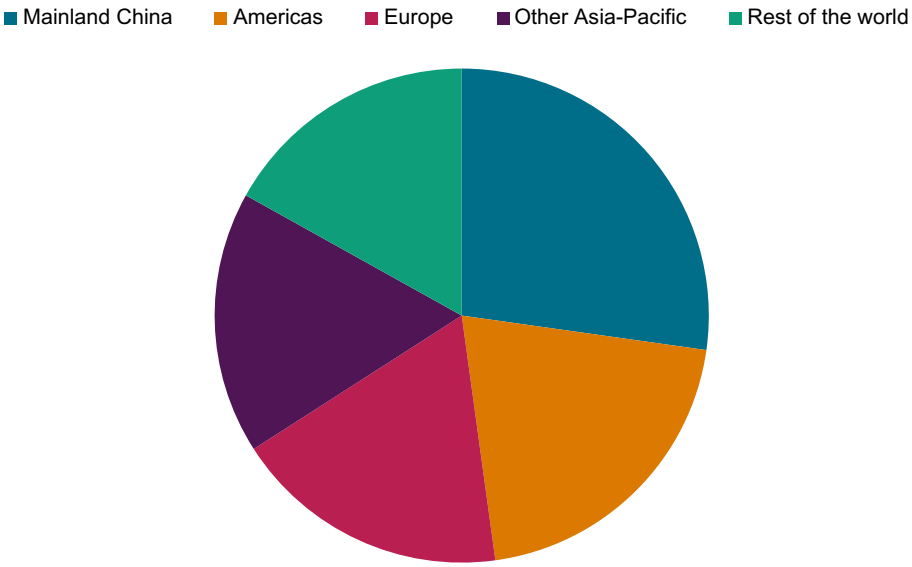
Abstract

Polyethylene terephthalate (PET) bottle-grade resins belong to the broad generic class of high-molecular-weight condensation polymers known as thermoplastic polyesters. They are derived from PET melt-phase resins (also referred to as polyester melt) that are further polymerized (solid-stated) before use and therefore have a higher intrinsic viscosity. The combination of good physical, optical and lightweight properties has allowed PET bottle-grade resins to gradually displace glass bottles and containers, and it remains the material of choice for these applications. This report concentrates primarily on the supply/demand for PET bottle-grade resins used in bottle and packaging applications.

PET bottle-grade resin consumption has benefitted from the substitution of heavy-walled glass containers, especially in the beverage market, and has grown at a high rate. In developed markets, PET consumption is maturing as most glass substitution has already taken place; however, in developing regions, PET resin markets are still growing, as a result of increasing GDP, changing lifestyles and improving living standards, as well as expanding populations. Mainland China accounted for more than one-fourth of the global PET resin consumption in 2025; globally, consumption has grown about 5% per year from 2020 to 2025.

World consumption of PET bottle-grade resin — 2025



Data compiled Nov. 11, 2025.
Source: S&P Global Energy.
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Global consumption of PET bottle-grade resin is led by the production of beverage containers (preforms/bottles), followed by thermoform sheets/trays. Other PET applications such as film and sheet account for the remainder, driven primarily by developments in mainland China and the Middle East. Each region has certain preferences.

In developed regions, PET resin consumption has been affected negatively by several trends — the lightweighting of plastic bottles, the shift in consumer behavior toward lower consumption of carbonated soft drinks and the increasing use of recycled PET (rPET) material. The strong growth of rPET demand has been driven primarily by legislation requiring the reduction of solid waste.

Future growth of PET bottle-grade resins consumption will continue to be driven by preform/bottle applications, mainly for beverage containers. As most of the glass substitution has already been achieved, PET resin consumption is currently driven primarily by the general growth of the beverage industry (containers). As such, the market is now driven heavily by emerging economies where the growing population, the improvement of living standards and progressive westernization are driving the consumption of more bottled beverages.

For more detailed information, see the table of contents, shown below.

S&P Global Chemical Economics Handbook – *Polyethylene Terephthalate (PET) Bottle-Grade Resins* is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including

Global summary; regional coverage

Producers with annual capacities and plant sites

Production figures and trends

Consumption and forecasts by end use application

Manufacturing processes and environmental issues

Trade – imports and exports

Key benefits

S&P Global Chemical Economics Handbook – *Polyethylene Terephthalate (PET) Bottle-Grade Resins* has been compiled using primary interviews with key suppliers and organizations, and leading representatives from the industry in combination with an unparalleled access to upstream and downstream market intelligence and expert insights into industry dynamics, trade and economics.

This report can help you

– Identify trends and driving forces influencing chemical markets

– Forecast and plan for future demand

– Understand the impact of competing materials

– Identify and evaluate potential customers and competitors

– Evaluate producers

– Track changing prices and trade movements

– Analyze the impact of feedstocks, regulations and other factors on chemical profitability

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CONTACTS

Americas: +1 800 597 1344
Asia-Pacific: +60 4 296 1125
Europe, Middle East, Africa: +44 (0) 203 367 0681

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