



Market Analytics: Polyester and Intermediates - 2023

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

Market Analytics: Polyester and Intermediates - 2023 report provides an in-depth analysis of the following products :

- Para-Xylene
- Purified Terephthalic Acid
- Dimethyl Terephthalate
- Ethylene Oxide
- Mono Ethylene Glycol
- PET Melt Phase
- PET Bottle Grade

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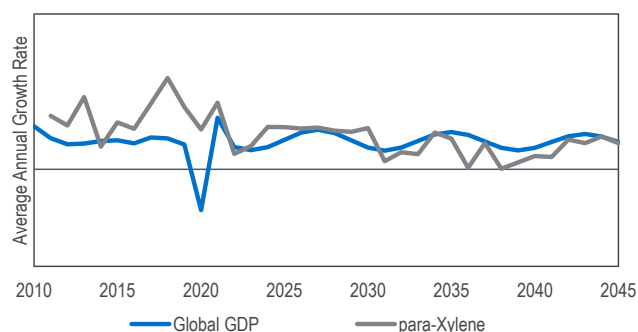
Along with the written report, NexantECA's Online Database includes supply, demand and trade analysis for 40 countries and global capacity listings updated on a monthly basis.

Report Abstract:

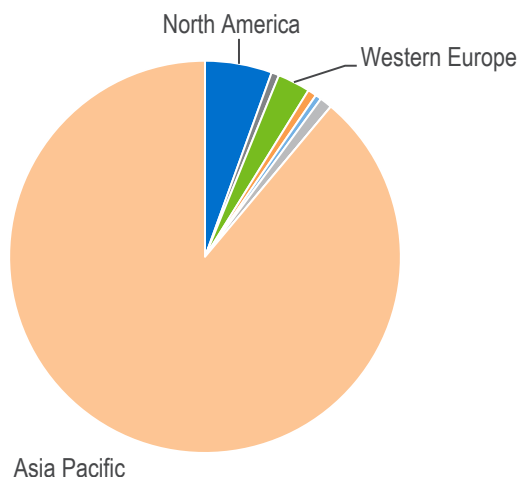
The products included in the polyethylene terephthalate (PET) chain are PET bottle grade and PET melt phase, and the intermediates purified terephthalic acid (PTA), dimethyl terephthalate (DMT), para-xylene, which is the main raw material for PTA and DMT, and mono-ethylene glycol (MEG). Those intermediates are consumed primarily in the production of PET. Ethylene oxide (EO) is also included in this report as MEG is the main EO derivative.

Polyester (PET) melt phase or polyester base polymer is the raw PET polymer which is the basis of all PET derivatives. PET melt phase is produced by polymerisation of PTA or DMT with mono-ethylene glycol (MEG) in a melt phase reaction. PET resins produced for bottle grade application normally include one to two percent each of purified isophthalic acid and DEG as co monomers. There is still some batch polymerisation equipment operating, but most production is now in continuous polymerisation reactors, generally referred to as CP units.

Global para-Xylene Consumption Growth
million tons



Global para-Xylene Demand, 2023



The melt phase polymer can be spun directly as polyester fibre, extruded as film, or solidified into chips for sale as base polymer or can undergo SSP (solid state polymerisation) treatment to create PET bottle grade. Some processes, notably Uhde Inventa-Fischer's "MTR" (melt-to-resin) produce resin directly from the melt phase which has a sufficiently high viscosity for bottle applications without the need for SSP. Eastman's Integrex process also has this feature. For the purpose of the supply/demand analysis, these plants are viewed as being both PET melt phase and PET bottle grade plants, i.e. they produce PET melt phase, which is then consumed for the production of PET bottle grade. In this way, the PET melt phase balance continues to reflect the totality of the PET market, and the MTR resins are also included in the PET bottle grade analysis.

For more information contact us at Markets@NexantECA.com or www.NexantECA.com



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- A. Methodology
- B. Technology

Chapter 3 is segmented by key region:

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

Subscription Details:

Subscription to **Market Analytics: Polyester and Intermediates - 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: Polyester and Intermediates

Quarterly Business Analysis

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The **Markets and Profitability** program comprises of the well-known Petroleum and Petrochemical Economics (PPE), PolyOlefins Planning Service (POPS), Strategic Business Analysis (SBA) and World Gas Analytics (WGAS).

Markets and Profitability tracks over 60 feedstocks, petrochemicals, polymers, chemical intermediates and fertilizers on an ongoing basis and provides regularly updated reports covering all commercial aspects of these global industries. The accompanying database, provides global analysis and forecasts in two major inter-related areas: **Markets and Profitability**. NexantECA serves its clients from over 10 offices located throughout the Americas, Europe, the Middle East, Africa and Asia.

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