NexantECA

Markets & Profitability

Market Insights: Polyether Polyols – 2022

Market Insights: Polyether Polyols - 2022 is one in a series of reports published as part of NexantECA's Markets & Profitability program.

NexantECA's Market Insights report provides a comprehensive review of the global polyether polyols market, including supply, demand and trade and development of bio-based polyols.

The following scope is covered:

- Discussion regarding key market drivers and constraints for each region
- Supply/Demand/Trade for nine regions: North America, South America, Western Europe, Central Europe, Eastern Europe, Middle East, Africa, Asia Pacific, and China
- Competitiveness analysis, including competitive landscape and cost competitiveness
- Price history and forecast with commentary regarding latest trends
- Forecast period: 10 years history and 15 year forecast to 2035

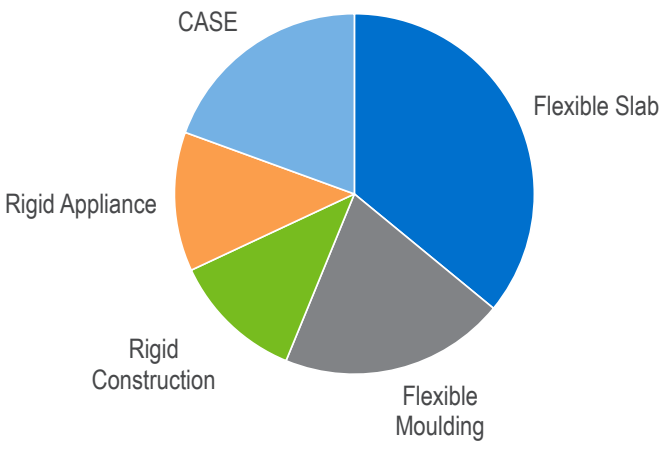
Along with the written report, data is provided in Excel including global capacity list

Report Abstract:

Polyether polyols represent a range of products produced by the oxyalkilation (also known as alkoxylation) of discrete polyfunctional initiators or starters. The resulting polyol products vary depending on the initiator system, product molecular weight, and the oxides utilized for the oxyalkilation process. Propylene oxide (PO) and ethylene oxide (EO) are the alkylene oxides (cyclic ethers) most used in polyether polyols production. Typical starters that are used include glycerine, trimethylolpropane, sucrose, sorbitol, ethylene glycol and propylene glycol.

Polyether polyols is the main end-use of propylene oxide (PO), comprising around 70 percent of PO demand and is a significant part of the polyurethane value chain. Polyurethanes result from the reaction of polyols with diisocyanates. The isocyanate component has thus far been exclusively derived from petrochemical feedstock, while the polyol component can be produced from either petrochemical based starters or renewable resources such as soybean oil, castor oil, sunflower oil, and rapeseed oil. The most common diisocyanates used are toluene diisocyanate (TDI) and methylenediphenyl diisocyanate (MDI).

There are numerous types of polyether polyols - the largest downstream applications of polyether polyols are flexible foam, rigid foam, as well as coatings, adhesives, sealants and elastomers (CASE). Polyether polyols provide unusually high hydrolytic stability and good low-temperature flexibility, with relatively low viscosity. They are susceptible to degradation by light (ultraviolet radiation) and by oxygen when hot. Both antioxidants and UV stabilizers are used to counteract these forms of degradation. The growth in demand for polyether polyols is largely a function of growth in polyurethane foam usage. Flexible and semi-rigid foams constitute the majority of demand for this end-use



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Each region section in Chapter 3 includes:

- Market Overview
- Market Drivers
- Market Constraints
- Competitive Landscape
- Supply and Demand

Report License Details:

Access to **Market Insights: Polyether Polyols - 2022** is via a report license agreement and includes:

- 12 month access to the PDF report via NexantECA website, with unlimited downloads of PDF reports
- Excel file
- Consultation time with the project team

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The **Markets and Profitability** program 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**.

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