



Market Insights: Polyolefin Elastomers and Plastomers

Market Insights: Polyolefin Elastomers and Plastomers – 2024 is one in a series of reports published as part of NexantECA Markets & Profitability program

NexantECA's Market Insights report provides a comprehensive review of the global polyolefin elastomers and plastomers (POEs and POPs) and in-situ thermoplastic olefinics (TPOs) markets, with historic data from 2015 and forecasts to 2035 and includes:

- Discussion regarding key market trends for each region
- Supply, demand and trade for nine regions: North America, South America, Western Europe, Central Europe, Eastern Europe, Middle East, Africa, Asia Pacific, and China.
- End-use analysis includes:
 - POEs: Polymer Modification, PV Encapsulant, Footwear, Wire & Cables and Others
 - POPs: Packaging, Hot Melt Adhesives and Others
 - In-situ TPOs: Automotive, Building & Construction and Others.
- Competitiveness analysis, including competitive landscape, who's who of suppliers
- Price and margin analysis with commentary regarding latest trends

Along with the written report, data is provided in Excel including global capacity listings by product, i.e. POEs and POPs, in-situ TPOs

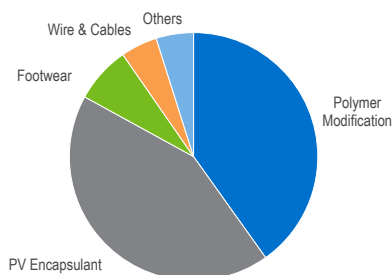
Report Abstract:

The key markets for polyolefin elastomers are compounded TPOs, shoe soles and solar panel encapsulant films, while plastomers are used largely as is for films and extrusion coating applications.

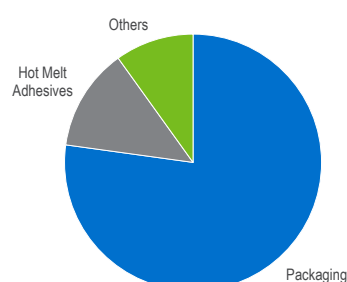
In TPOs, POEs give a balance of stiffness, low temperature toughness and dimensional stability, yielding a TPO which is more ductile than TPOs with EPR or EPDM as the rubber phase. Globally, POE have displaced over two-thirds of the EPDM content in compounded TPOs on the basis of lower cost, easier handling (pellets instead of bales), and properties. However, displacement is slowing as there are certain grades of TPOs which require higher-performing EPDM as the elastomer phase in order to achieve certain properties.

An in-situ TPO is defined as a polyolefin material containing between 20 and 35 percent ethylene as produced in the reactor; essentially all the remaining composition is propylene. In-situ TPOs can be used directly for end-use applications such as automotive parts or they can be used in compounds as a PP flexibility modifier. LyondellBasell is the leader in in-situ TPO market with their CATALLOY technology.

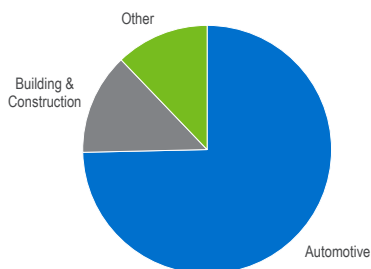
Global POE Consumption



Global POP Consumption



Global in-situ TPO Consumption



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Each region section in Chapter 3 includes:

- Market Overview
- Key Trends
- Competitive Landscape
- Supply and Demand

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