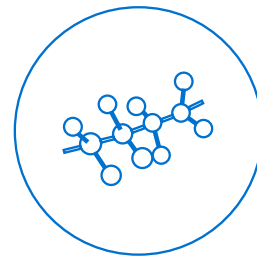


Subscribe to NexantThinking™



PolyOlefins Global Technology Analysis

The PolyOlefins Planning Service (POPS) is a subscription program providing detailed and insightful analysis of the global polyethylene and polypropylene business since the 1990s.

To accompany the PolyOlefins Planning Service subscription NexantThinking also publishes the Global Technology Analysis on a bi-annual schedule.

The Global Technology Analysis is not included within the annual subscription fee to the PolyOlefins Planning Service.

This report provides an in-depth technology review of:

- Low density polyethylene (LDPE)
- Linear low density polyethylene (LLDPE)
- High density polyethylene (HDPE)
- Polypropylene (PP)

Published in October 2016

The Abstract

The global polyolefins industry continues to be shaped by ongoing development in feedstock supply due to the on-going investment in shale gas in the United States and coal-to-olefins technology in China. This has resulted in a number of plant closures, along with new capacity start-ups.

In addition, despite the on-going development and promotion of high performance resins, the industry is becoming increasingly commoditized with purchasing decisions made on the basis of cost. Production economics for polyolefins show noticeable disparities within and between regions.

The Global Technology Analysis provides analysis of developments in polyethylene and polypropylene technology and assesses the effect on the polyolefins business. The report addresses the fundamental drivers behind technology development, and includes:

- Process technology – impact of increasing plant scale and the evolution of new technologies.
- Process chemistry – focuses on new catalysts, modified formulation and increased yields.
- Product development – resins for new applications, product substitution and application specific improvements

Other issues such as trends in technology licensing are also explored in this new report.

Report Content:

1. Executive Summary
2. LDPE Process Technology
 - 2.1 Introduction
 - 2.2 Tubular Processes
 - 2.3 Autoclave Processes
3. LLDPE and Swing Process Technology
 - 3.1 Introduction
 - 3.2 Gas Phase Processes
 - 3.3 Solution Processes
 - 3.4 Slurry Loop Processes
4. HDPE (Dedicated) Process Technology
 - 4.1 Introduction
 - 4.2 Ziegler Slurry Processes
 - 4.3 Slurry Loop Processes
 - 4.4 Gas Phase Processes
5. Polypropylene Process Technology
 - 5.1 Introduction
 - 5.2 Gas Phase Processes
 - 5.3 Bulk Processes
 - 5.4 Improved Slurry Process
6. Cost of Production Economics
 - 6.1 Introduction
 - 6.2 Polyethylene Technology Assessment
 - 6.3 Polypropylene Technology Assessment
 - 6.4 Economic Basis

Appendix

Cost of Production Estimates

License Details:

The PolyOlefins Global Technology Analysis 2016 license includes:

- One hard copy of the report
- Access via the Nexant Thinking client portal, <http://thinking.nexant.com>, to:
 - Unlimited downloads in PDF
- Client webinar

NexantThinking™

NexantThinking reports and subscription programs provide clients with comprehensive analytics, forecasts and insights for the chemicals, polymers, energy and cleantech industries. Using a combination of business and technical expertise, with deep and broad understanding of markets, technologies and economics, NexantThinking provides solutions that our clients have relied upon for over 50 years.

Global in scope, Nexant serves its clients from over 30 offices located throughout the Americas, Europe, the Middle East, Africa and Asia.

Subscribe to our thought leadership today and explore our products and services at:

thinking.nexant.com

Corporate Headquarters

Tel: +1 415 369 1000
101 2nd St Suite 1000
San Francisco
CA 94105-3651
USA

Americas

Tel: +1 914 609 0300
44 S Broadway,
4th Floor White Plains
NY 10601-4425
USA

Europe, Middle East & Africa

Tel: +44 20 7950 1600
1 King's Arms Yard
London EC2R 7AF
United Kingdom

Asia Pacific

Tel: +662 793 4600
22nd Floor, Rasa Tower I
555 Phahonyothin Road
Kwaeng Chatuchak
Khet Chatuchak
Bangkok 10900
Thailand

Copyright © 2000–2015 Nexant Inc.

