



## Market Insights:

# Ultra-High Molecular Weight Polyethylene (UHMWPE) – 2023

**Market Insights: Ultra-High Molecular Weight Polyethylene (UHMWPE) – 2023 is one in a series of reports published as part of NexantECA Markets & Profitability program.**

NexantECA's upcoming Market Insights report provides a comprehensive review of the global UHMWPE market, and includes:

- 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
- End-use analysis includes: fibres, medical, battery separators, mechanical equipment coatings and other
- Competitiveness analysis, including competitive landscape, who's who of suppliers and cost competitiveness
- Price history and forecast with commentary regarding latest trends
- Forecast period: history to 2015 and forecast to 2035

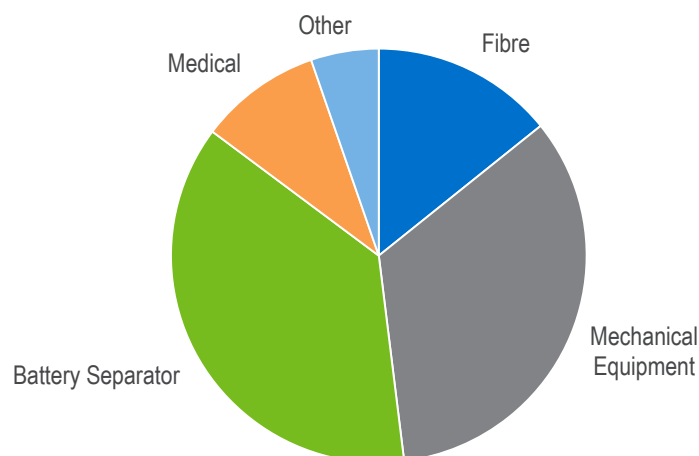
Along with the written report, data is provided in Excel including global capacity listings.

### Report Abstract:

Commercially available UHMWPE are thermoplastic polyolefins with a molecular mass usually between two to six million g/mol. UHMWPE is odourless, tasteless, and nontoxic, and shows high resistance to corrosive chemicals except oxidizing acids; it also exhibits extremely low moisture absorption. Also known as high-modulus polyethylene, the most important properties of UHMWPE are impact strength, abrasion resistance, performance at low temperatures, weatherability, lubricity, low friction coefficient, and chemical resistance.

Major application areas of UHMWPE include bulk material handling, food and beverage machinery, chemical, mining and mineral processing equipment, sports and recreational equipment, vehicle parts and orthopaedic implants, largely owing to its abrasion resistance, chemical resistance and good frictional properties. UHMWPE resin is also gel processed for applications such as battery separators, synthetic paper or high-strength fibre applications. The sintering process can be used to produce porous parts such as filters, wicking parts and fluid delivery components. Major suppliers include Celanese, Braskem and DSM (now Avient).

### *Global UHMWPE Demand by End Use*



UHMWPE pricing and margins are reviewed and a delivered cost analysis is performed for the major regional suppliers.

**For more information, please visit [www.NexantECA.com](http://www.NexantECA.com)**

# Market Insights: Ultra-High Molecular Weight Polyethylene (UHMWPE) – 2023



## Table of Contents

1. Executive Summary
2. Introduction
  - 2.1. Overview
  - 2.2. Key End-Use Markets
3. Market Outlook
  - 3.1. Asia Pacific (excluding China)
  - 3.2. China
  - 3.3. North America
  - 3.4. South America
  - 3.5. Western Europe
  - 3.6. Central Europe
  - 3.7. Eastern Europe
  - 3.8. Middle East
  - 3.9. Africa
4. Pricing Analysis and Forecast
5. Cost Competitiveness
6. Market Summary
  - 6.1. Porters Five Force

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: UHMWPE - 2023** 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

**Contact Us**  
For more information:  
**Markets@NexantECA.com**  
or  
**www.NexantECA.com**



**NexantECA Subscriptions & Reports** 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, NexantECA provides solutions that our clients have relied upon for over 50 years.

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**.

NexantECA serves its clients from over 30 offices located throughout the Americas, Europe, the Middle East, Africa and Asia.

### 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  
110 Cannon Street, London  
EC4N 6EU  
United Kingdom

### Asia Pacific

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