

# Medical Grade Ultra High Molecular Weight Polyethylene (UHMWPE) Market Analysis By Application (Total Hip Replacement, Knee Replacement, Shoulder Replacement, Ankle Replacement, Small Joints) And Segment Forecast To 2024

https://marketpublishers.com/r/M135679BE1BEN.html

Date: October 2016

Pages: 94

Price: US\$ 5,950.00 (Single User License)

ID: M135679BE1BEN

## **Abstracts**

The global medical grade ultra high molecular weight polyethylene (UHMWPE) market is expected to reach USD 1.36 billion by 2024, according to a new report by Grand View Research, Inc. The effectiveness of the material in medical implants due to its superior properties such as high impact strength, low reactivity, and good flexibility is expected to drive the demand over the forecast period.

UHMWPE is a material having long chains which enable it to efficiently transfer load, thus making it suitable for implantation applications. The material is extremely pliable and has good impact strength. The material has less weight as compared to metals. All these properties have increased the demand for UHMWPE for medical applications in the recent past, and this trend is expected to continue over the forecast period.

Joint replacement surgeries use ultra high molecular weight polyethylene due to its effectiveness and versatility options. There has been a surge in demand for joint replacement surgeries across the globe. Rising geriatric population, changing lifestyle and lack of fitness are the contributing factors for this trend. This trend is expected to benefit the overall demand over next eight years.

Major industry participants are trying to develop innovative implantable products which have a longer life, are more comfortable, and give a strong mechanical performance.



The market is characterized by few companies occupying a dominant revenue share. Companies are taking steps to increase the product portfolio and production capacity to meet the rising demand.

Further key findings from the report suggest:

The global medical grade UHMWPE market demand was 60.9 kilo tons in 2015 and is expected to reach 204.8 kilo tons by 2024, growing at a CAGR of 15.0% from 2016 to 2024

Knee replacement had the highest penetration in 2015, and this trend is expected to continue over the next eight years. This scenario is due to a high number of knee replacement surgeries, thus catering to an increasing demand for UHMPWE

PET fibers are being replaced by UHMWPE fibers, thus creating avenues for reduced device sizes. Such advents in Research and Development are expected to benefit the overall market growth

North America dominated the global industry and accounted for over 35% of total demand in 2015. Existing medical infrastructure and demand for replacement surgeries particularly in the U.S. are the primary attributed reasons for this scenario

Major market participants include Honeywell, DSM N.V., LyondellBasell, Celanese Corporation, Quadrant, Braskem, and Asahi Kasei Chemicals Corporation.



## **Contents**

#### **CHAPTER 1 METHODOLOGY AND SCOPE**

- 1.1 Research Methodology
- 1.2 Research Scope & Assumptions
- 1.3 List of Data Sources

#### **CHAPTER 2 EXECUTIVE SUMMARY**

#### **CHAPTER 3 MARKET SNAPSHOT**

#### **CHAPTER 4 INDUSTRY OUTLOOK**

- 4.1 Market segmentation
- 4.2 Market size and growth prospects
- 4.3 Medical Grade UHMWPE Market Value Chain Analysis
- 4.4 Raw Material Trend
- 4.5 Regulatory Trend
- 4.6 Medical Grade UHMWPE: Market dynamics
  - 4.6.1 Market Driver Analysis
    - 4.6.1.1 Growing awareness among consumers regarding total knee arthroplasty
- 4.6.1.2 Usage of UHMWPE for fragile bone applications and also among patients & surgeons
  - 4.6.2 Market Restraint analysis
    - 4.6.2.1 Wear problems related to UHMWPE fibers
- 4.7 Key Opportunities Prioritized
- 4.8 Medical Grade UHMWPE Market Porter's Analysis
- 4.9 Medical Grade UHMWPE Market PESTEL Analysis, 2015

# CHAPTER 5 MARKET CATEGORIZATION 1: APPLICATION ESTIMATES & TREND ANALYSIS

- 5.1 Global medical grade UHMWPE market volume share by application, 2015 & 2024
- 5.2 Total hip replacement
  - 5.2.1 Market estimates & forecasts, 2014 2024
  - 5.2.2 Market by estimates & forecasts, by region 2014 2024
- 5.3 Knee replacement
  - 5.3.1 Market estimates & forecasts, 2014 2024



- 5.3.2 Market estimates & forecasts, by region 2014 2024
- 5.4 Shoulder replacement
  - 5.4.1 Market estimates & forecasts, 2014 2024
  - 5.4.2 Market estimates & forecasts, by region 2014 2024
- 5.5 Ankle replacement
  - 5.5.1 Market estimates & forecasts, 2014 2024
  - 5.5.2 Market estimates & forecasts, by region 2014 2024
- 5.6 Small joints
  - 5.6.1 Market estimates & forecasts, 2014 2024
  - 5.6.2 Market estimates & forecasts, by region 2014 2024

# CHAPTER 6 MARKET CATEGORIZATION 2: REGIONAL ESTIMATES & TREND ANALYSIS, BY APPLICATION

- 6.1 Global medical grade UHMWPE market volume share by region, 2015 & 2024
- 6.2 North America
  - 6.2.1 Market estimates and forecasts, 2014 2024
  - 6.2.2 Market estimates and forecasts, by application, 2014 2024
  - 6.2.3 U.S.
    - 6.2.3.1 Market estimates & forecasts, 2014 2024
    - 6.2.3.2 Market estimates & forecasts, by application, 2014 2024
- 6.3 Europe
  - 6.3.1 Market estimates & forecasts, 2014 2024
  - 6.3.2 Market estimates & forecasts, by application, 2014 2024
  - 6.3.3 UK
    - 6.3.3.1 Market estimates and forecasts, 2014 2024
    - 6.3.3.2 Market estimates and forecasts, by application, 2014 2024
  - 6.3.4 Germany
    - 6.3.4.1 Market estimates and forecasts, 2014 2024
    - 6.3.4.2 Market estimates and forecasts, by application, 2014 2024
  - 6.3.5 Italy
    - 6.3.5.1 Market estimates and forecasts, 2014 2024
    - 6.3.5.2 Market estimates and forecasts, by application, 2014 2024
- 6.4 Asia Pacific
  - 6.4.1 Market estimates and forecasts, 2014 2024
  - 6.4.2 Market estimates and forecasts, by application, 2014 2024
  - 6.4.3 China
    - 6.4.3.1 Market estimates and forecasts, 2014 2024
    - 6.4.3.2 Market estimates and forecasts, by application, 2014 2024



- 6.4.4 India
  - 6.4.4.1 Market estimates and forecasts, 2014 2024
  - 6.4.4.2 Market estimates and forecasts, by application, 2014 2024
- 6.4.5 Japan
  - 6.4.5.1 Market estimates and forecasts, 2014 2024
  - 6.4.5.2 Market estimates and forecasts, by application, 2014 2024
- 6.5 Central & South America (CSA)
  - 6.5.1 Market estimates and forecasts, 2014 2024
  - 6.5.2 Market estimates and forecasts, by application, 2014 2024
  - 6.5.3 Brazil
    - 6.5.3.1 Market estimates and forecasts, 2014 2024
    - 6.5.3.2 Market estimates and forecasts, by application, 2014 2024
- 6.6 Middle East & Africa (MEA)
  - 6.6.1 Market estimates and forecasts, 2014 2024
  - 6.6.2 Market estimates and forecasts, by application, 2014 2024

#### **CHAPTER 7 COMPETITIVE INTELLIGENCE**

- 7.1 Industry Analysis By Region
- 7.2 Vendor Landscape
- 7.3 Company Market Positioning
- 7.4 Strategy Framework

#### **CHAPTER 8 COMPANY PROFILES**

- 8.1 Celanese Corporation
  - 8.1.1 Company Overview
  - 8.1.2 Financial Performance
  - 8.1.3 Product Benchmarking
  - 8.1.4 Strategic Initiatives
- 8.2 LyondellBasell
  - 8.2.1 Company Overview
  - 8.2.2 Financial Performance
  - 8.2.3 Product Benchmarking
- 8.3 DSM N.V.
  - 8.3.1 Company Overview
  - 8.3.2 Financial Performance
  - 8.3.3 Product Benchmarking
  - 8.3.4 Strategic Initiatives



- 8.4 Quadrant
  - 8.4.1 Company Overview
  - 8.4.2 Financial Performance
  - 8.4.3 Product Benchmarking
  - 8.4.4 Strategic Initiatives
- 8.5 Sinopec Yizheng Chemical Fibre Company Limited
  - 8.5.1 Company Overview
  - 8.5.2 Financial Performance
  - 8.5.3 Product Benchmarking
- 8.6 Shanghai Lianle Chemical Industry Science & Technology Co., Ltd.
  - 8.6.1 Company Overview
  - 8.6.2 Financial Performance
  - 8.6.3 Product Benchmarking
- 8.7 Crown Plastics Co., Inc.
  - 8.7.1 Company Overview
  - 8.7.2 Financial Performance
  - 8.7.3 Product Benchmarking
- 8.8 Wuxi Fukun Chemical Co., Ltd.
  - 8.8.1 Company Overview
  - 8.8.2 Financial Performance
  - 8.8.3 Product Benchmarking
- 8.9 Braskem
  - 8.9.1 Company Overview
  - 8.9.2 Financial Performance
  - 8.9.3 Product Benchmarking
  - 8.9.4 Strategic Initiatives
- 8.10 Asahi Kasei Chemicals Corporation
  - 8.10.1 Company Overview
  - 8.10.2 Financial Performance
  - 8.10.3 Product Benchmarking
- 8.11 Honeywell
  - 8.11.1 Company Overview
  - 8.11.2 Financial Performance
  - 8.11.3 Product Benchmarking
- 8.12 Mitsui Chemicals, Inc.
  - 8.12.1 Company Overview
  - 8.12.2 Financial Performance
  - 8.12.3 Product Benchmarking
- 8.13 CP Medical



- 8.13.1 Company Overview
- 8.13.2 Financial Performance
- 8.13.3 Product Benchmarking
- 8.14 Global Polymer
  - 8.14.1 Company Overview
  - 8.14.2 Financial Performance
  - 8.14.3 Product Benchmarking
- 8.15 Orthoplastics
  - 8.15.1 Company Overview
  - 8.15.2 Financial Performance
  - 8.15.3 Product Benchmarking
- 8.16 Dotmar EPP Pty Ltd.
  - 8.16.1 Company Overview
  - 8.16.2 Financial Performance
  - 8.16.3 Product Benchmarking
- 8.17 A&C Plastics, Inc.
  - 8.17.1 Company Overview
  - 8.17.2 Financial Performance
  - 8.17.3 Product Benchmarking
- 8.18 Total Plastics Inc.
  - 8.18.1 Company Overview
  - 8.18.2 Financial Performance
  - 8.18.3 Product Benchmarking



## **List Of Tables**

#### LIST OF TABLES

TABLE 1 Global medical grade UHMWPE market estimates & forecasts, by total hip replacement, 2014 - 2024 (Kilo tons) (USD million)

TABLE 2 Global medical grade UHMWPE market estimates & forecasts, by total hip replacement, by region, 2014 - 2024 (Kilo tons)

TABLE 3 Global medical grade UHMWPE market estimates & forecasts, by total hip replacement, by region, 2014 - 2024 (USD Million)

TABLE 4 Global medical grade UHMWPE market estimates & forecasts, by knee replacement, 2014 - 2024 (Kilo tons) (USD million)

TABLE 5 Global medical grade UHMWPE market estimates & forecasts, by knee replacement, by region, 2014 - 2024 (Kilo tons)

TABLE 6 Global medical grade UHMWPE market estimates & forecasts, by knee replacement, by region, 2014 - 2024 (USD Million)

TABLE 7 Global medical grade UHMWPE market estimates & forecasts, by shoulder replacement, 2014 - 2024 (Kilo tons) (USD million)

TABLE 8 Global medical grade UHMWPE market estimates & forecasts, by shoulder replacement, by region, 2014 - 2024 (Kilo tons)

TABLE 9 Global medical grade UHMWPE market estimates & forecasts, by shoulder replacement, by region, 2014 - 2024 (USD Million)

TABLE 10 Global medical grade UHMWPE market estimates & forecasts, by ankle replacement, 2014 - 2024 (Kilo tons) (USD million)

TABLE 11 Global medical grade UHMWPE market estimates & forecasts, by ankle replacement, by region, 2014 - 2024 (Kilo tons)

TABLE 12 Global medical grade UHMWPE market estimates & forecasts, by ankle replacement, by region, 2014 - 2024 (USD Million)

TABLE 13 Global medical grade UHMWPE market estimates & forecasts, by small joints, 2014 - 2024 (Kilo tons) (USD million)

TABLE 14 Global medical grade UHMWPE market estimates & forecasts, by small joints, by region, 2014 - 2024 (Kilo tons)

TABLE 15 Global medical grade UHMWPE market estimates & forecasts, by small joints, by region, 2014 - 2024 (USD Million)

TABLE 16 North America UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 17 North America UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 18 North America UHMWPE market estimates and forecasts, by application,



2014 - 2024 (USD Million)

TABLE 19 U.S. UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 20 U.S. UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 21 U.S. UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 22 Europe UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 23 Europe UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 24 Europe UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 25 UK UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 26 UK UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 27 UK UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 28 Germany UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 29 Germany UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 30 Germany UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 31 Italy UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 32 Italy UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 33 Italy UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 34 Asia Pacific UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 35 Asia Pacific UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 36 Asia Pacific UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 37 China UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)



TABLE 38 China UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 39 China UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 40 India UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 41 India UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 42 India UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 43 Japan UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 44 Japan UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 45 Japan UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 46 CSA UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 47 CSA UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 48 CSA UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 49 Brazil UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 50 Brazil UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 51 Brazil UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)

TABLE 52 MEA UHMWPE market estimates and forecasts, 2014 - 2024 (Kilo Tons) (USD Million)

TABLE 53 MEA UHMWPE market estimates and forecasts, by application, 2014 - 2024 (Kilo Tons)

TABLE 54 MEA UHMWPE market estimates and forecasts, by application, 2014 - 2024 (USD Million)



# **List Of Figures**

#### LIST OF FIGURES

- FIG. 1 Market Snapshot
- FIG. 2 Market segmentation
- FIG. 3 Medical grade UHMWPE market, 2014 2024, (Kilo Tons, USD Million)
- FIG. 4 Medical grade UHMWPE market value chain analysis
- FIG. 5 Crude oil prices, 2010-2015 (USD/Barrel)
- FIG. 6 Medical grade UHMWPE dynamics
- FIG. 7 Trends in knee replacement surgeries in selected OECD countries
- FIG. 8 Key opportunities prioritized
- FIG. 9 Medical grade UHMWPE market Porter's analysis
- FIG. 10 Medical grade UHMWPE market PESTEL analysis, 2015
- FIG. 11 Global medical grade UHMWPE market volume share by application, 2015 & 2024
- FIG. 12 UHMWPE market volume share by region, 2015 & 2024
- FIG. 13 Competitive strategy adopted by leading players



#### I would like to order

Product name: Medical Grade Ultra High Molecular Weight Polyethylene (UHMWPE) Market Analysis By

Application (Total Hip Replacement, Knee Replacement, Shoulder Replacement, Ankle

Replacement, Small Joints) And Segment Forecast To 2024

Product link: https://marketpublishers.com/r/M135679BE1BEN.html

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/M135679BE1BEN.html">https://marketpublishers.com/r/M135679BE1BEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below



and fax the completed form to +44 20 7900 3970