The global medical grade ultra high molecular weight polyethylene (UHMWPE) market is expected to reach USD 1.36 billion by 2024. 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 UHMWPE

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.
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
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
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
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

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)
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit
http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

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
Web Address: http://www.researchandmarkets.com/reports/3972831/
Office Code: SC2G9PGS

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 4950</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 7950</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 9950</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World