

The global ultra-high molecular weight polyethylene market is expected to grow at a CAGR of 9.9% from 2018-2023

The UHMWPE market is expected to grow rapidly in upcoming years, due to its demand in various manufacturing applications, in healthcare and defense division.

HYDERABAD, TELANGANA, INDIA, September 6, 2018 /EINPresswire.com/ -- [Ultra High Molecular Weight Polyethylene](#) Revolutionizing Multiple Industries

Ultra High Molecular Weight Polyethylene (UHMWPE) resin is known for its excellent properties such as wettability, surface energy, roughness, high yield strength, highest impact strength and so on. The UHMWPE market is expected to grow rapidly in upcoming years, due to its demand in various manufacturing applications, in the healthcare and in defense division. High performance and low cost are going to be the main factors for the UHMWPE market growth. But still they are finding some defects in their products such as fusion defects in healthcare and manufacturing sector.

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Challenges associated with UHMWPE are fusion defects, defects in knee and hips prosthesis. The challenges considered in this article are mostly related to the applications in which UHMWPE finds employment. Fusion defect is witnessed during the processing of polymerized powder, and the failure of this defect is detected during the implementation of UHMWP in load bearing surfaces. The other two defects detected in employment of UHMWPE first form is void (empty spaces in polymerization bonding that makes the material weak) and the other is particle boundaries with less qualities. To address these challenges, certain changes need to be made in the processing techniques and product designing. A new quantifier is developed to predict the decay of severity during processing.

The maximum repeated molecular mass "M" quantifier is developed for characterizing the process of diffusion. Due to this, UHMWP materials can be now used in various applications and sectors.

Industries are now focusing on UHMWP to implement it in various applications such as healthcare, defense, and other machinery products used in manufacturing industries. Ultra high molecular weight polymer is implemented in defense, and is employed for personal protective equipment such as helmets, body armor and so on, and also for anti-ballistic applications such as missiles and other armor. In the health care sector, UHMWP material is used in joint replacement surgeries for knees and hips. In manufacturing industries, UHMWP materials are highly in demand in machinery products such as wear strips, chain guides, bin liners, pulleys and so on.

North America is estimated as the largest share market in the global UHMWP market, the US is accounted for having the largest market share market in defense, healthcare, aerospace and various other applications. In medical sector UHMWP material's demand in market is going to increase rapidly in the upcoming couple of years. The UHMWP market is increasing in India, Brazil, China, Germany, Italy, Japan, Mexico, the United Kingdom and the US. The opportunity in pipeline industries identifies a number of emerging trends that enables the faster growth of

UHMWP market.

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Ultra high molecular weight polyethylene market is segmented as indicated below:

1. Ultra high molecular weight polyethylene market – By Grade

- 1.1. Introduction
- 1.2. NA Grade
 - 1.2.1. White
 - 1.2.2. Green
- 1.3. Antistatic Grade
 - 1.3.1. Black
 - 1.3.2. Green

2. Ultra high molecular weight polyethylene market – By Forms

- 2.1. Round bar
- 2.2. Pipe
- 2.3. Sheet
- 2.4. Tape
- 2.5. Powder
- 2.6. Others

3. Ultra high molecular weight polyethylene market - Materials

- 3.1. Aluminum
- 3.2. Brass
- 3.3. Celeron
- 3.4. PVC
- 3.5. Copper
- 3.6. Polyacetal
- 3.7. Bronze
- 3.8. Polycarbonate
- 3.9. HDPE (High density polyethylene)
- 3.10. Steel SAE 1020
- 3.11. Teflon
- 3.12. Others

4. Ultra high weight polyethylene market – End user industry

- 4.1. Textile industry
- 4.2. Food & beverage industry
- 4.3. Transport
- 4.4. Pulp and paper
 - 4.4.1. Doctor blades
 - 4.4.2. Stripping elements
 - 4.4.3. Foils
 - 4.4.4. Filter plates
- 4.5. Chemical, electroplating and ceramics
 - 4.5.1. Pumps
 - 4.5.2. Valves
 - 4.5.3. Gaskets
 - 4.5.4. Rollers
 - 4.5.5. Nozzles
- 4.6. Sport and Leisure
 - 4.6.1. Alpine
 - 4.6.2. Snowboards

- 4.6.3. Ice skating
- 4.6.4. Bowling alleys
- 4.7. Automotive
 - 4.7.1. Bearing
 - 4.7.2. Sleeves
- 4.8. Coal and mining
- 4.9. Healthcare
- 4.10. Others

- 5. Ultra high molecular weight polyethylene market – By market entropy
- 6. Ultra high molecular weight polyethylene market – By market entropy

Companies Cited/Interviewed/Referenced

Asahi Kasei
Calanese Corporation
Honeywell International
Lyondell Basell Industries
Mitsui Chemicals
Royal DSM
Artek
Braskem
Sabic
Teijin
Company 20+

Related Reports:

A. Packaging Adhesives Market

<https://industryarc.com/Report/11715/packaging-adhesives-market.html>

B. Decorative Coatings Market

<https://industryarc.com/Report/11716/decorative-coating-market.html>

What can you expect from the report?

The Ultra High Molecular Weight Polyethelene Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis (By Revenue & Volume)
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis

20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Ultra High Molecular Weight Polyethylene Market?

Response: Yes, we do have separate reports and database as mentioned below:

1. North America Ultra High Molecular Weight Polyethylene Market (2018-2023)
2. South America Ultra High Molecular Weight Polyethylene Market (2018-2023)
3. Europe Ultra High Molecular Weight Polyethylene Market (2018-2023)
4. Asia Pacific Ultra High Molecular Weight Polyethylene Market (2018-2023)
5. Middle East and Africa Ultra High Molecular Weight Polyethylene Market (2018-2023)
6. Antistatic Grade Ultra High Molecular Weight Polyethylene Market (2018-2023)
7. Sheet form Ultra High Molecular Weight Polyethylene Market (2018-2023)
8. Sport and Leisure Ultra High Molecular Weight Polyethylene Market (2018-2023)

Q. Does IndustryARC provide customized reports and charge additionally for limited customization?

Response: Yes, we can customize the report by extracting data from our database of reports and annual subscription databases. We can provide the following free customization

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2. Increase the number of countries in geography or product chapter.
3. Find out market shares for other smaller companies or companies which are of interest to you.
4. Company profiles can be requested based on your interest.
5. Patent analysis, pricing, product analysis, product benchmarking, value and supply chain analysis can be requested for a country or end use segment.

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