

Global Biodegradable Mulch Films Market Size study, by Raw Material (Aliphatic-Aromatic Copolyesters, Starch Blended with Polyhydroxyalkanoate, Starch Blended with Polylactic Acid, Thermoplastic Starch), by Crop Type (Flowers & Ornamental Plants, Fruits & Vegetables, Grains & Oilseeds), by Application (Agroforestry, Floriculture, Fruit & Vegetable Cultivation, Landscaping, Nurseries & Greenhouses, Research & Development) and Regional Forecasts 2022-2032

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Abstracts

Global Biodegradable Mulch Films Market is valued approximately at USD 73.19 million in 2023 and is anticipated to grow with a healthy growth rate of more than 8.45% over the forecast period 2024-2032. Biodegradable mulch film, composed of plant starch and eco-friendly additives, serves as a sustainable alternative to traditional plastic mulch films. These films are increasingly applied in various farming activities to enhance crop yield and reduce pesticide use. The growing adoption of sustainable farming practices by horticulturists, landscapers, and eco-conscious gardeners is significantly driving the demand for biodegradable mulch films.

The market's rapid expansion can be attributed to the rising environmental concerns that impact crop quality and the growing need for effective solutions like biodegradable mulch films to produce high-quality crops. Government support for eco-friendly farming practices, the trend towards organic farming, and potential bans on plastic mulches offer significant growth opportunities for the biodegradable mulch films market. Despite these

opportunities, challenges such as higher costs compared to conventional plastic films, lack of product awareness, and issues related to product durability and effectiveness pose hurdles. However, innovation and research are poised to overcome these challenges by focusing on developing cost-effective, superior-quality biodegradable mulch films. Ongoing research into new biodegradable materials, enhanced product durability, improved decomposition rates, and nutrient-enriching films during decomposition further creates future growth prospects for the market. Aliphatic-aromatic copolyesters (AAC) are preferred for their mechanical strength and resistance to tearing, making them suitable for diverse agricultural applications. Starch blended with polyhydroxyalkanoate (PHA) offers biodegradability and compostability, significantly reducing waste management issues associated with conventional plastic mulch films. Starch blended with polylactic acid (PLA) is heat-resistant and derived from renewable resources, providing a reduced carbon footprint and compatibility with existing mulching equipment. Thermoplastic starch (TPS) offers flexibility and lower costs, making it preferable due to its improved physical properties when blended with other biodegradable polymers. The increasing adoption of biodegradable mulch films in flower and ornamental plant farming is driven by the need to protect delicate flora. In fruit and vegetable farming, biodegradable mulch films are preferred for their ability to improve soil temperature, moisture retention, and weed control. The films are also pivotal in grain and oilseed farming for soil temperature moderation and maintaining soil structure.

The key regions considered for the global Biodegradable Mulch Films Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Biodegradable Mulch Films Market in terms of revenue. The market growth in the region is being attributed to factors including strong governmental policies supporting eco-friendly alternatives. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by high dependence on agriculture and government initiatives promoting sustainable farming.

Major market players included in this report are:

3M Company

Agriplast Tech India Private Limited

Ampacet Corporation

Armando Alvarez Group

BASF SE

Berry Global Inc.

BioFlexx Polymers Inc.

Chennai Polypack Private Limited

Coverfields

FilmOrganic

FKuR Kunststoff GmbH

Fortune Multipack

Ginegar Plastic Products Ltd.

Groupe Barbier

Growit India Private Limited

The detailed segments and sub-segment of the market are explained below:

By Raw Material:

Aliphatic-Aromatic Copolyesters

Starch Blended with Polyhydroxyalkanoate

Starch Blended with Polylactic Acid

Thermoplastic Starch

By Crop Type:

Flowers & Ornamental Plants

Fruits & Vegetables

Grains & Oilseeds

By Application:

Agroforestry

Floriculture

Fruit & Vegetable Cultivation

Landscaping

Nurseries & Greenhouses

Research & Development

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Global Biodegradable Mulch Films Market Size study, by Raw Material (Aliphatic-Aromatic Copolyesters, Starch B...

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL BIODEGRADABLE MULCH FILMS MARKET EXECUTIVE SUMMARY

- 1.1. Global Biodegradable Mulch Films Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Raw Material
 - 1.3.2. By Crop Type
 - 1.3.3. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL BIODEGRADABLE MULCH FILMS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL BIODEGRADABLE MULCH FILMS MARKET DYNAMICS

Global Biodegradable Mulch Films Market Size study, by Raw Material (Aliphatic-Aromatic Copolyesters, Starch B...

3.1. Market Drivers

- 3.1.1. Rising Demand for Eco-friendly and Sustainable Alternatives
- 3.1.2. Government Support for Eco-friendly Practices
- 3.1.3. Increasing Consumer Awareness Regarding Environmental Sustainability

3.2. Market Challenges

- 3.2.1. High Research and Development Costs
- 3.2.2. Inconsistent Material Properties

3.3. Market Opportunities

- 3.3.1. Innovations in Material Development
- 3.3.2. Optimizing Production Methods
- 3.3.3. Discovering New Techniques for Efficiency

CHAPTER 4. GLOBAL BIODEGRADABLE MULCH FILMS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL BIODEGRADABLE MULCH FILMS MARKET SIZE & FORECASTS BY RAW MATERIAL 2022-2032

5.1. Segment Dashboard

5.2. Global Biodegradable Mulch Films Market: Raw Material Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 5.2.1. Aliphatic-Aromatic Copolyesters
- 5.2.2. Starch Blended with Polyhydroxyalkanoate
- 5.2.3. Starch Blended with Polylactic Acid
- 5.2.4. Thermoplastic Starch

CHAPTER 6. GLOBAL BIODEGRADABLE MULCH FILMS MARKET SIZE & FORECASTS BY CROP TYPE 2022-2032

6.1. Segment Dashboard

6.2. Global Biodegradable Mulch Films Market: Crop Type Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 6.2.1. Flowers & Ornamental Plants
- 6.2.2. Fruits & Vegetables
- 6.2.3. Grains & Oilseeds

CHAPTER 7. GLOBAL BIODEGRADABLE MULCH FILMS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

7.1. Segment Dashboard

7.2. Global Biodegradable Mulch Films Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 7.2.1. Agroforestry
- 7.2.2. Floriculture
- 7.2.3. Fruit & Vegetable Cultivation
- 7.2.4. Landscaping
- 7.2.5. Nurseries & Greenhouses
- 7.2.6. Research & Development

CHAPTER 8. GLOBAL BIODEGRADABLE MULCH FILMS MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Biodegradable Mulch Films Market

- 8.1.1. U.S. Biodegradable Mulch Films Market
 - 8.1.1.1. Raw Material breakdown size & forecasts, 2022-2032
 - 8.1.1.2. Crop Type breakdown size & forecasts, 2022-2032

- 8.1.1.3. Application breakdown size & forecasts, 2022-2032
- 8.1.2. Canada Biodegradable Mulch Films Market
- 8.2. Europe Biodegradable Mulch Films Market
 - 8.2.1. UK Biodegradable Mulch Films Market
 - 8.2.2. Germany Biodegradable Mulch Films Market
 - 8.2.3. France Biodegradable Mulch Films Market
 - 8.2.4. Spain Biodegradable Mulch Films Market
 - 8.2.5. Italy Biodegradable Mulch Films Market
 - 8.2.6. Rest of Europe Biodegradable Mulch Films Market
- 8.3. Asia-Pacific Biodegradable Mulch Films Market
 - 8.3.1. China Biodegradable Mulch Films Market
 - 8.3.2. India Biodegradable Mulch Films Market
 - 8.3.3. Japan Biodegradable Mulch Films Market
 - 8.3.4. Australia Biodegradable Mulch Films Market
 - 8.3.5. South Korea Biodegradable Mulch Films Market
 - 8.3.6. Rest of Asia Pacific Biodegradable Mulch Films Market
- 8.4. Latin America Biodegradable Mulch Films Market
 - 8.4.1. Brazil Biodegradable Mulch Films Market
 - 8.4.2. Mexico Biodegradable Mulch Films Market
 - 8.4.3. Rest of Latin America Biodegradable Mulch Films Market
- 8.5. Middle East & Africa Biodegradable Mulch Films Market
 - 8.5.1. Saudi Arabia Biodegradable Mulch Films Market
 - 8.5.2. South Africa Biodegradable Mulch Films Market
 - 8.5.3. Rest of Middle East & Africa Biodegradable Mulch Films Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Agriplast Tech India Private Limited
 - 9.3.2. Ampacet Corporation
 - 9.3.3. Armando Alvarez Group
 - 9.3.4. BioFlexx Polymers Inc.
 - 9.3.5. Chennai Polypack Private Limited
 - 9.3.6. Coverfields

- 9.3.7. FilmOrganic
- 9.3.8. FKUR Kunststoff GmbH
- 9.3.9. Fortune Multipack
- 9.3.10. Ginegar Plastic Products Ltd.
- 9.3.11. Groupe Barbier
- 9.3.12. Growit India Private Limited
- 9.3.13. 3M Company
- 9.3.14. BASF SE
- 9.3.15. Berry Global Inc.

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Biodegradable Mulch Films market, report scope
- TABLE 2. Global Biodegradable Mulch Films market estimates & forecasts by Region 2022-2032 (USD Million)
- TABLE 3. Global Biodegradable Mulch Films market estimates & forecasts by Raw Material 2022-2032 (USD Million)
- TABLE 4. Global Biodegradable Mulch Films market estimates & forecasts by Crop Type 2022-2032 (USD Million)
- TABLE 5. Global Biodegradable Mulch Films market estimates & forecasts by Application 2022-2032 (USD Million)
- TABLE 6. Global Biodegradable Mulch Films market by segment, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 7. Global Biodegradable Mulch Films market by region, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 8. Global Biodegradable Mulch Films market by segment, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 9. Global Biodegradable Mulch Films market by region, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 10. Global Biodegradable Mulch Films market by segment, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 11. Global Biodegradable Mulch Films market by region, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 12. Global Biodegradable Mulch Films market by segment, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 13. Global Biodegradable Mulch Films market by region, estimates & forecasts, 2022-2032 (USD Million)
- TABLE 14. U.S. Biodegradable Mulch Films market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 15. U.S. Biodegradable Mulch Films market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 16. U.S. Biodegradable Mulch Films market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 17. Canada Biodegradable Mulch Films market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 18. Canada Biodegradable Mulch Films market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 19. Canada Biodegradable Mulch Films market estimates & forecasts by segment 2022-2032 (USD Million)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Biodegradable Mulch Films market, research methodology
- FIG 2. Global Biodegradable Mulch Films market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Biodegradable Mulch Films market, key trends 2023
- FIG 5. Global Biodegradable Mulch Films market, growth prospects 2022-2032
- FIG 6. Global Biodegradable Mulch Films market, porters 5 force model
- FIG 7. Global Biodegradable Mulch Films market, PESTEL analysis
- FIG 8. Global Biodegradable Mulch Films market, value chain analysis
- FIG 9. Global Biodegradable Mulch Films market by segment, 2022 & 2032 (USD Million)
- FIG 10. Global Biodegradable Mulch Films market by segment, 2022 & 2032 (USD Million)
- FIG 11. Global Biodegradable Mulch Films market by segment, 2022 & 2032 (USD Million)
- FIG 12. Global Biodegradable Mulch Films market by segment, 2022 & 2032 (USD Million)
- FIG 13. Global Biodegradable Mulch Films market by segment, 2022 & 2032 (USD Million)
- FIG 14. Global Biodegradable Mulch Films market, regional snapshot 2022 & 2032
- FIG 15. North America Biodegradable Mulch Films market 2022 & 2032 (USD Million)
- FIG 16. Europe Biodegradable Mulch Films market 2022 & 2032 (USD Million)
- FIG 17. Asia pacific Biodegradable Mulch Films market 2022 & 2032 (USD Million)
- FIG 18. Latin America Biodegradable Mulch Films market 2022 & 2032 (USD Million)
- FIG 19. Middle East & Africa Biodegradable Mulch Films market 2022 & 2032 (USD Million)
- FIG 20. Global Biodegradable Mulch Films market, company market share analysis (2023)

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