

## **Mulch Films - A Global Market Overview**

Market Report | 2025-06-05 | 282 pages | Industry Experts

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### **Report description:**

Global Mulch Films Market Trends and Outlook

Mulch films are thin layers of plastic or biodegradable materials placed on the soil surface to enhance agricultural production. They are widely used in both open-field agriculture and horticultural practices. These films serve several important purposes, including maintaining soil moisture, regulating temperature, preventing weed growth, and improving crop yield and quality. Mulch films are broadly categorized into two types: non-biodegradable and biodegradable. Non-biodegradable films are made from durable synthetic materials such as LDPE, LLDPE, HDPE, and EVA, valued for their strength and resistance to weather conditions. Biodegradable films, which include thermoplastic starch (TPS), starch polymer blends like PLA and PHA, and bio-based materials such as AAC, PBS, and PBAT, are gaining traction due to their compostability and lower environmental impact. These films are available in various types, each designed for specific functions. Black mulch films obstruct sunlight to stop weed growth, whereas clear/transparent films trap heat to warm the soil. Colored and photo-selective films affect plant growth or deter pests by reflecting certain light wavelengths. Furthermore, there are specific types, such as metallic reflective films that improve light distribution, anti-fog films that keep clarity in humid situations, and degradable films intended for short-term crops or seasonal applications. As precision agriculture advances and sustainability becomes integral to farming, mulch films remain essential in extensive agricultural practices and controlled-environment horticulture.

The global market for Mulch Films is estimated at US\$4.6 billion in 2024 and is projected to reach US\$7 billion by 2030, with a CAGR of 7.7% during the forecast period 2024-2030. The global mulch films market is witnessing significant growth driven by the increasing demand for effective and sustainable farming methods. As global food demands rise, farmers are shifting toward using mulch films to improve crop yields, save water, maintain soil temperature, and control weed proliferation. These films are vital in greenhouse cultivation, where controlled settings are necessary for year-round production. The shift towards biodegradable mulch films is gaining momentum due to heightened environmental awareness and stricter regulations on plastic waste. Materials such as thermoplastic starch (TPS), PLA, and PHA are becoming favored as eco-friendly substitutes for conventional polyethylene-based films. Innovations in smart mulch films-with features like UV resistance, temperature control, and light diffusion-are boosting crop productivity while reducing water usage. The growth of organic farming and circular economy practices further bolsters the market, along with advancements in bioplastics and recyclable materials. Strategic collaborations among manufacturers are focused on replacing traditional films with sustainable alternatives, thereby improving environmental compliance. As consumer

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awareness rises and the demand for agricultural efficiency grows, mulch films are increasingly essential in modern high-yield farming systems.

### Mulch Films Regional Market Analysis

The Asia Pacific region dominates the global mulch films market with a 48% share in 2024 and is projected to grow at the fastest CAGR of 8.3% through 2030, fueled by a rapidly growing population and increasing food demand. Major markets such as China and India are benefiting from government initiatives that encourage sustainable, high-yield agricultural practices, along with lower costs for raw materials and labor. The growth is further enhanced by a rising interest in biodegradable mulch films, innovations in polymer technologies, increased agricultural investments, and improved farmer awareness regarding advantages like enhanced crop yields, water conservation, and weed control, supported by subsidies and educational programs. North American mulch films market is experiencing significant growth, driven by widespread use in both large-scale and organic farming, rising demand for sustainable and biodegradable films, and advancements in horticulture technology. The availability of cultivable land and the adoption of precision agriculture further boost the market. Europe is expanding steadily, supported by urbanization, greenhouse farming, and strict environmental regulations promoting biodegradable mulch films for sustainable crop production.

### Mulch Films Market Analysis by Product Type

The non-biodegradable mulch films segment dominated the market in 2024, capturing 68.9% of total revenue. This segment's growth is driven primarily by key materials such as LDPE and LLDPE, which together account for over 65% of the non-biodegradable mulch films market. These films are widely used in agriculture due to their durability, cost-effectiveness, and ability to regulate soil temperature, conserve moisture, and suppress weeds. On the other hand, the biodegradable mulch films segment is expected to record the fastest growth rate at a CAGR of 11.6% between 2024 and 2030. This surge is fueled by increasing sustainability mandates and environmental regulations encouraging the adoption of eco-friendly agricultural solutions. Within this segment, PHA (starch blended with polyhydroxyalkanoate) stands out as the fastest-growing material, projected to record a CAGR of 12.8% during the analysis period.

### Mulch Films Market Analysis by Type

The black mulch films segment leads the market in 2024, accounting for a 38% share, driven by its superior ability to suppress weeds, retain moisture, and regulate soil temperature. By blocking sunlight, black films effectively prevent weed growth, reducing the need for herbicides and lowering labor costs. These films are widely used in high-value crops such as vegetables, fruits, and flowers in greenhouse and open-field environments, enhancing productivity and promoting sustainable farming practices. In contrast, clear or transparent mulch films are projected to register the fastest CAGR of 9.4% from 2024 to 2030. Their ability to block infrared radiation while allowing sunlight to reach plants helps maintain optimal soil warmth, retain moisture, and inhibit weed growth. These benefits support easier harvesting and higher yields, driving their growing use in agricultural systems focused on improving output and water efficiency.

### Mulch Films Market Analysis by Application

The agriculture segment dominates the mulch films market by application, with a 66.2% share in 2024 due to the wide use of mulch films in large-scale farming to enhance yields through moisture retention, soil conditioning, and weed control. Supportive government policies promoting efficient irrigation and soil conservation further boost their adoption. Meanwhile, the horticulture application segment is projected to grow at the fastest CAGR of 9.7% from 2024 to 2030, driven by demand for sustainable farming practices. Mulch films conserve water, reduce chemical use, and improve conditions for high-value crops like berries, grapes, and flowers. Advanced films, such as UV-resistant and biodegradable types, are increasingly used, especially in greenhouse farming across Europe and North America.

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## Mulch Films Market Report Scope

This global report on Mulch Films analyzes the market based on product type, material, type, and application. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

### Key Metrics

Historical Period: 2021-2023

Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 14

### Mulch Films Market by Geographic Region

- North America (The United States, Canada, and Mexico)
- Europe (Germany, France, the United Kingdom, Italy, Spain, and Rest of Europe)
- Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)
- South America (Brazil, Argentina, and Rest of South America)
- Rest of World

### Mulch Films Market by Product Type

- Non-biodegradable
  - o□ LDPE (Low-density polyethylene)
  - o□ LLDPE (Linear low-density polyethylene)
  - o□ HDPE (High-density polyethylene)
  - o□ EVA (Ethylene-Vinyl Acetate)
  - o□ Other Non-Biodegradable Materials (Including PP (Polypropylene), PVC (Polyvinyl Chloride), PET (Polyethylene Terephthalate), and Non-Biodegradable Woven/Nonwoven Fabrics)
- Biodegradable
  - o□ TPS (Thermoplastic Starch)
  - o□ PLA (Starch Blended with Polylactic Acid)
  - o□ PHA (Starch Blended with Polyhydroxyalkanoate)
  - o□ Other Biodegradable Materials (Including? AAC (Aliphatic Aromatic Copolyesters), PBS (Polybutylene Succinate), PBAT (Polybutylene adipate-co-terephthalate), Paper Mulch, and Custom Blends)

### Mulch Films Market by Type

- Black
- Clear/Transparent
- Photo-Selective Mulch
- Colored
- Degradable
- Other Types (Including Silver, White, Metallic, Anti-Fog, Bi-color mulch films and others)

### Mulch Films Market by Application

- Agriculture
- Horticulture

## Table of Contents:

### PART A: GLOBAL MARKET PERSPECTIVE

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## 1. INTRODUCTION

- Product Outline

- Mulch Films Defined

- Mulch Film Product Types

- o□Non-biodegradable

- Non-biodegradable Mulch Film Materials

- LDPE (Low-density polyethylene)

- LLDPE (Linear low-density polyethylene)

- HDPE (High-density polyethylene)

- EVA (Ethylene-Vinyl Acetate)

- Other Non-Biodegradable Materials (Including PP (Polypropylene), PVC (Polyvinyl Chloride), PET (Polyethylene Terephthalate), and Non-Biodegradable Woven/Nonwoven Fabrics)

- o□Biodegradable

- Biodegradable Mulch Film Materials

- TPS (Thermoplastic Starch)

- PLA (Starch Blended with Polylactic Acid)

- PHA (Starch Blended with Polyhydroxyalkanoate)

- Other Biodegradable Materials (Including? AAC (Aliphatic Aromatic Copolyesters), PBS (Polybutylene Succinate), PBAT (Polybutylene adipate-co-terephthalate), Paper Mulch, and Custom Blends)

- Mulch Film Types

- o□Black

- o□Clear/Transparent

- o□Photo-Selective Mulch

- o□Colored

- o□Degradable

- o□Other Types (Including Silver, White, Metallic, Anti-Fog, Bi-color mulch films and others)

- Mulch Film Applications

- o□Agriculture

- o□Horticulture

## 2. Key Market Trends

## 3. Key Global Players

## 4. Key Business & Product Type Trends

## 5. Global Market Overview

- Global Mulch Films Market Overview by Product Type

- o□Mulch Films Product Type Market Overview by Global Region

- Non-biodegradable

- Global Non-biodegradable Mulch Films Market Overview by Material

- Non-biodegradable Mulch Films Material Market Overview by Global Region

- LDPE (Low-density polyethylene)

- LLDPE (Linear low-density polyethylene)

- HDPE (High-density polyethylene)

- EVA (Ethylene-Vinyl Acetate)

- Other Non-Biodegradable Materials

- Biodegradable

- Global Biodegradable Mulch Films Market Overview by Material

- Biodegradable Mulch Films Material Market Overview by Global Region

- TPS (Thermoplastic Starch)

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- PLA (Starch Blended with Polylactic Acid)
- PHA (Starch Blended with Polyhydroxyalkanoate)
- Other Biodegradable Materials
- Global Mulch Films Market Overview by Type
- o□Mulch Films Type Market Overview by Global Region
- Black
- Clear/Transparent
- Photo-Selective Mulch
- Colored
- Degradable
- Other Types
- Global Mulch Films Market Overview by Application
- o□Mulch Films Application Market Overview by Global Region
- Agriculture
- Horticulture

## PART B: REGIONAL MARKET PERSPECTIVE

- Global Mulch Films Market Overview by Geographic Region

### REGIONAL MARKET OVERVIEW

#### 6. North America

- North American Mulch Films Market Overview by Geographic Region
- North American Mulch Films Market Overview by Product Type
- North American Non-biodegradable Mulch Films by Material
- North American Biodegradable Mulch Films by Material
- North American Mulch Films Market Overview by Type
- North American Mulch Films Market Overview by Application
- Country-wise Analysis of North American Mulch Films Market
- o□The United States
- United States Mulch Films Market Overview by Product Type
- United States Non-biodegradable Mulch Films by Material
- United States Biodegradable Mulch Films by Material
- United States Mulch Films Market Overview by Type
- United States Mulch Films Market Overview by Application
- o□Canada
- Canadian Mulch Films Market Overview by Product Type
- Canadian Non-biodegradable Mulch Films by Material
- Canadian Biodegradable Mulch Films by Material
- Canadian Mulch Films Market Overview by Type
- Canadian Mulch Films Market Overview by Application
- o□Mexico
- Mexican Mulch Films Market Overview by Product Type
- Mexican Non-biodegradable Mulch Films by Material
- Mexican Biodegradable Mulch Films by Material
- Mexican Mulch Films Market Overview by Type
- Mexican Mulch Films Market Overview by Application

#### 7. Europe

- European Mulch Films Market Overview by Geographic Region
- European Mulch Films Market Overview by Product Type

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- European Non-biodegradable Mulch Films by Material
- European Biodegradable Mulch Films by Material
- European Mulch Films Market Overview by Type
- European Mulch Films Market Overview by Application
- Country-wise Analysis of European Mulch Films Market
- o□Germany
  - German Mulch Films Market Overview by Product Type
  - German Non-biodegradable Mulch Films by Material
  - German Biodegradable Mulch Films by Material
  - German Mulch Films Market Overview by Type
  - German Mulch Films Market Overview by Application
- o□France
  - French Mulch Films Market Overview by Product Type
  - French Non-biodegradable Mulch Films by Material
  - French Biodegradable Mulch Films by Material
  - French Mulch Films Market Overview by Type
  - French Mulch Films Market Overview by Application
- o□The United Kingdom
  - United Kingdom Mulch Films Market Overview by Product Type
  - United Kingdom Non-biodegradable Mulch Films by Material
  - United Kingdom Biodegradable Mulch Films by Material
  - United Kingdom Mulch Films Market Overview by Type
  - United Kingdom Mulch Films Market Overview by Application
- o□Italy
  - Italian Mulch Films Market Overview by Product Type
  - Italian Non-biodegradable Mulch Films by Material
  - Italian Biodegradable Mulch Films by Material
  - Italian Mulch Films Market Overview by Type
  - Italian Mulch Films Market Overview by Application
- o□Spain
  - Spanish Mulch Films Market Overview by Product Type
  - Spanish Non-biodegradable Mulch Films by Material
  - Spanish Biodegradable Mulch Films by Material
  - Spanish Mulch Films Market Overview by Type
  - Spanish Mulch Films Market Overview by Application
- o□Rest of Europe
  - Rest of Europe Mulch Films Market Overview by Product Type
  - Rest of Europe Non-biodegradable Mulch Films by Material
  - Rest of Europe Biodegradable Mulch Films by Material
  - Rest of Europe Mulch Films Market Overview by Type
  - Rest of Europe Mulch Films Market Overview by Application
- 8. Asia-Pacific
  - Asia-Pacific Mulch Films Market Overview by Geographic Region
  - Asia-Pacific Mulch Films Market Overview by Product Type
  - Asia-Pacific Non-biodegradable Mulch Films by Material
  - Asia-Pacific Biodegradable Mulch Films by Material
  - Asia-Pacific Mulch Films Market Overview by Type

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- Asia-Pacific Mulch Films Market Overview by Application
- Country-wise Analysis of Asia-Pacific Mulch Films Market
- o□Japan
- Japanese Mulch Films Market Overview by Product Type
- Japanese Non-biodegradable Mulch Films by Material
- Japanese Biodegradable Mulch Films by Material
- Japanese Mulch Films Market Overview by Type
- Japanese Mulch Films Market Overview by Application
- o□China
- Chinese Mulch Films Market Overview by Product Type
- Chinese Non-biodegradable Mulch Films by Material
- Chinese Biodegradable Mulch Films by Material
- Chinese Mulch Films Market Overview by Type
- Chinese Mulch Films Market Overview by Application
- o□India
- Indian Mulch Films Market Overview by Product Type
- Indian Non-biodegradable Mulch Films by Material
- Indian Biodegradable Mulch Films by Material
- Indian Mulch Films Market Overview by Type
- Indian Mulch Films Market Overview by Application
- o□South Korea
- South Korean Mulch Films Market Overview by Product Type
- South Korean Non-biodegradable Mulch Films by Material
- South Korean Biodegradable Mulch Films by Material
- South Korean Mulch Films Market Overview by Type
- South Korean Mulch Films Market Overview by Application
- o□Rest of Asia-Pacific
- Rest of Asia-Pacific Mulch Films Market Overview by Product Type
- Rest of Asia-Pacific Non-biodegradable Mulch Films by Material
- Rest of Asia-Pacific Biodegradable Mulch Films by Material
- Rest of Asia-Pacific Mulch Films Market Overview by Type
- Rest of Asia-Pacific Mulch Films Market Overview by Application
- 9. South America
- South American Mulch Films Market Overview by Geographic Region
- South American Mulch Films Market Overview by Product Type
- South American Non-biodegradable Mulch Films by Material
- South American Biodegradable Mulch Films by Material
- South American Mulch Films Market Overview by Type
- South American Mulch Films Market Overview by Application
- Country-wise Analysis of Asia-Pacific Mulch Films Market
- o□Brazil
- Brazilian Mulch Films Market Overview by Product Type
- Brazilian Non-biodegradable Mulch Films by Material
- Brazilian Biodegradable Mulch Films by Material
- Brazilian Mulch Films Market Overview by Type
- Brazilian Mulch Films Market Overview by Application
- o□Argentina

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- Argentine Mulch Films Market Overview by Product Type
- Argentine Non-biodegradable Mulch Films by Material
- Argentine Biodegradable Mulch Films by Material
- Argentine Mulch Films Market Overview by Type
- Argentine Mulch Films Market Overview by Application
- o□Rest of South America
- Rest of South American Mulch Films Market Overview by Product Type
- Rest of South American Non-biodegradable Mulch Films by Material
- Rest of South American Biodegradable Mulch Films by Material
- Rest of South American Mulch Films Market Overview by Type
- Rest of South American Mulch Films Market Overview by Application

#### 10. Rest of World

- Rest of World Mulch Films Market Overview by Product Type
- Rest of World Non-biodegradable Mulch Films by Material
- Rest of World Biodegradable Mulch Films by Material
- Rest of World Mulch Films Market Overview by Type
- Rest of World Mulch Films Market Overview by Application

#### PART C: GUIDE TO THE INDUSTRY

#### PART D: ANNEXURE

1. RESEARCH METHODOLOGY
2. FEEDBACK

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