

Global Greenhouse Films Market – Resins and Applications

<https://marketpublishers.com/r/G3C1F0EC7243EN.html>

Date: November 2024

Pages: 353

Price: US\$ 4,500.00 (Single User License)

ID: G3C1F0EC7243EN

Abstracts

Greenhouse Films Market Trends and Outlook

Greenhouses are structures that enable in creating a microclimate of their own by regulating the humidity and temperature of the area within where plants are kept. Apart from common vegetables, these structures are utilized for cultivating exotic plants, orchids and even start seedlings by offering an adaptable growing environment. Greenhouses allow growing fruits, flowers and vegetables all year round in a suitably safe ecosystem, thereby protecting delicate plants from extremities of weather. Protecting and nurturing the variety of plants being grown in greenhouses can be achieved by using Greenhouse Films that cover these structures and provide a perfect and regulated internal environment for their growth. These typically are plastic resin-based films of specific thicknesses, which are essential to maintain optimum growing conditions by having an influence on parameters ranging from transmission of light to control of temperature and humidity.

The global market for Greenhouse Films is estimated at US\$7.3 billion in 2024 and is projected to reach US\$12.3 billion by 2030 at a CAGR of 9% between 2024 and 2030.

Some of the major factors expected to drive the global demand for Greenhouse Films include greater demand for food from a growing population, increasing number of greenhouse protected cultivation areas, government initiatives aimed at protected agriculture support, demand for technologically advanced greenhouse films, such as multi-layer films, greater need for crops cultivated in nurseries protected with greenhouse films, popularity of ornamental plants grown in greenhouses, advancements in greenhouse film technology, commercialization of horticulture & fruit cultivation and growing urbanization & limited land to grow crops.

Greenhouse Films Regional Market Analysis

Geographically, Asia-Pacific represents the largest, as also the fastest growing, region for Greenhouse Films. Population in the region is growing at a considerable rate, because of which a significant portion of land used for growing crops and vegetables is being converted into commercial and residential spaces. In such a scenario, greenhouses offer safe and conducive environments to cultivate fruits and vegetables for addressing the needs of consumers. North America and Europe are the other regions that would maintain healthy growth for Greenhouse Film demand over the 2024-2030 analysis period. Climate change is another factor that has played havoc with cultivational practices, since unseasonal rainfall and snowfall tend to destroy acres and acres of planted crops. Using greenhouses can, to some extent at least, be helpful in overcoming this disastrous situation.

Greenhouse Films Market Analysis by Resin Type

The major categories of Greenhouse Films by resin type include Polyethylene (PE) [further sub-divided into High-Density Polyethylene (HDPE), Low-Density Polyethylene (LDPE), Linear Low-Density Polyethylene (LLDPE) & Metallocene Linear Low-Density Polyethylene (mLLDPE)], Ethylene Vinyl Acetate (EVA), Polyvinyl Chloride (PVC) and Polycarbonate (PC), among others. Within these, the global market for PE-based Greenhouse Films is the largest, as these are found to have ideal properties to sustain adverse climatic conditions. LDPE is the largest sub-segment of PE Greenhouse Films, which is also likely to register the fastest growth during the 2024-2030 analysis period. These films offer better thickness, optical properties and resistance to sunlight, thereby driving demand for them. Further benefits include greater flexibility and transparency and relatively lesser cost. In terms of growth, though, the market for PC-based films would be the fastest. While these films are quite costly, they are preferred because of providing greater and longer lasting protection against wind and snow. PC films, while being available in a variety of colors, are suitable for greenhouse covering applications in clear, UV-resistant form. Ultimately, it can be said that each individual film type has its own set of pros and cons for use in greenhouses.

Greenhouse Films Market Analysis by Thickness

By thickness, Greenhouse Films can be classified into 200 microns, with films of

Greenhouse Films Market Analysis by Application

Categorization of Greenhouse Films based on application includes Floriculture, Fruit Cultivation and Vegetable Cultivation. Cultivating of vegetables forms the largest application area for Greenhouse Films, since arable land to grow crops is shrinking at an alarming rate due to uncontrolled population growth, which demands sufficient living space. One of the major advantages of greenhouses is the ability to grow vegetables even in very cold climatic conditions, which ensures adequate supply on an annual basis. The market for Greenhouse Films for Floriculture, especially ornamental and exotic plants, is likely to surpass all other application areas, since there is a great demand for various types of ornamental plants in interior commercial and residential settings. Some of the more commonly grown ornamental plant in greenhouses include gazanias, impatiens, ferns, poinsettias, petunias, salvia, caladiums and orchids.

Greenhouse Films Market Report Scope

This global report on Greenhouse Films analyzes the market based on resin type, film thickness and application area. 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: 2023

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 60+

Greenhouse Films Market by Geographic Region

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)

Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)

South America (Argentina, Brazil and Rest of South America)

Middle East & Africa

Greenhouse Films Market by Resin Type

Ethylene Vinyl Acetate (EVA)

Polycarbonate (PC)

Polyethylene (PE)

High-Density Polyethylene (HDPE)

Linear Low-Density Polyethylene (LLDPE)

Low-Density Polyethylene (LDPE)

Metallocene Linear Low-Density Polyethylene (mLLDPE)

Polyvinyl Chloride (PVC)

Greenhouse Films Market by Thickness

200 microns

> 200 microns

Greenhouse Films Market by Application Area

Floriculture

Fruit Cultivation

Vegetable Cultivation

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Polycarbonate (PC)

Polyethylene (PE)

High-Density Polyethylene (HDPE)

Linear Low-Density Polyethylene (LLDPE)

Low-Density Polyethylene (LDPE)

Metallocene Linear Low-Density Polyethylene (mLLDPE)

Polyvinyl Chloride (PVC)

Greenhouse Films Thickness

200 microns

Greenhouse Films Applications

Floriculture

Fruit Cultivation

Horticulture

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3. Key Global Players

A.A.A. Greenhouse Film

Politiv Ltd

Ab Rani Plast Oy

Achilles Corp

AgriNovus

Agriplast

Agriplast Tech India Pvt Ltd

Agripolyane

Amcor PLC

Arid Agritech

Aserpro SA

Avient

BASF SE

Beijing Kingpeng International Hi-Tech Corp

Berry Global, Inc.

British Polythene Industries (BPI)
Central Worldwide Co Ltd
Charu Agroplast Pvt Ltd
Cosio Industries Ltd
D.S.E. Co Ltd
Daikin
DuPont
Eiffel Industria Materiale Plastiche SpA
Engineering Services & Products Co
Essen Multipack Ltd
Exxon Mobil Corp
FarmTek
Freudenberg SE
FVG Folien-Vertriebs GmbH
GCR Group
Ginegar Plastic Products Ltd
Goutham Plastic (India) Pvt. Ltd.
GreenPro
Groupe Barbier
Grupo Armando Alvarez SA
Halocarbon LLC
Industrial Development Co SAL
Iris Polymers Industries Pvt Ltd
Luguan Plastics
Lumite, Inc.
Macro International Co Ltd
Mitsubishi Chemical Corp
Paklite (Pty) Ltd
Plastchim-T
Plastika Kritis SA
Polifilm Extrusion GmbH
Polyvisol
RPC Group plc
RKW SE
SABIC
Shandong Qingtian Plastic Co Ltd
Shandong Shouguang Jianyuanchun Co Ltd.
Shandong Tianhe Plastic Co Ltd
Sichuan Bozong Greenhouse Co Ltd

Singhal Industries

Solvay

Sotrafa

Thai Chaoren Thong Karntor Co Ltd

The Dow Chemical Co

Tianjin Plastic Greenhouse Film

Tilak Polypack

Tuflex

UbiQD, Inc.

Vis and Son Co Ltd

Visqueen

Xinguang Plastic

Zibo Zhongyi Plastic Products Co Ltd.

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Global Greenhouse Films Market Overview by Resin Type

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Polycarbonate (PC)

Polyethylene (PE)

High-Density Polyethylene (HDPE)

Linear Low-Density Polyethylene (LLDPE)

Low-Density Polyethylene (LDPE)

Metallocene Linear Low-Density Polyethylene (mLLDPE)

Polyvinyl Chloride (PVC)

Global Greenhouse Films Market Overview by Thickness

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200 microns

Global Greenhouse Films Market Overview by Application

Greenhouse Films Application Market Overview by Global Region

Floriculture

Fruit Cultivation

Horticulture

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Indian Greenhouse Films Market Overview by Film Thickness

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Japanese Greenhouse Films Market Overview by Application

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