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Geosynthetics Market Report by Product (Geotextiles, Geomembranes, Geogrids, Geonets, Geosynthetic Clay Liner (GCL), Pre-Fabricated Vertical Drains (PVD), and Others), Type (Woven, Non-Woven, Knitted, and Others), Material (Polypropylene, Polyester, Polyethylene, Polyvinyl Chloride, Synthetic Rubber, and Others), Application (Road Construction and Pavement Repair, Railroads, Drainage Systems, Soil Reinforcement and Erosion, Water and Waste Management, and Others), and Region 2024-2032

https://marketpublishers.com/r/G3FD8BBA031AEN.html
Date: April 2024
Pages: 132
Price: US$ 3,899.00 (Single User License)
ID: G3FD8BBA031AEN

Abstracts

The global geosynthetics market size reached US$ 12.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 20.4 Billion by 2032, exhibiting a growth rate (CAGR) of 5.1% during 2024-2032. The rising construction activities and transport infrastructure projects, increasing environmental regulations, expanding product adoption across diverse industries, the surging emphasis on water conservation, and the rise of renewable energy, are some of the major factors propelling the market.

Geosynthetics are a type of polymeric material primarily made of polyester, polyethylene (PE), and polypropylene (PP). These products consist of geotextiles, geogrids, geonets, and geomembranes. They are integral to a wide range of applications such as erosion control, filtration, landfills, drainage, and a variety of civil engineering projects. Geosynthetics are cost-effective, durable, and adaptable. Besides this, they are highly valued for enhancing soil's mechanical and physical characteristics,

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helping it endure severe weather conditions. As a result, they are extensively utilized in various industrial operations across the mining, transport, and agriculture sectors.

The increasing construction activities across the globe, particularly within emerging economies, are primarily fueling the growth of the geosynthetics market. In line with this, the expanding use of green roofs and walls for superior soil erosion prevention and water drainage management is contributing to the market's growth. Moreover, geosynthetics find extensive use in the transportation sector, bolstering soil stability and strength for railways and roads, which, in turn, is creating a favorable outlook for market expansion. In addition to this, the emerging trends in employing geomembranes for wastewater management, owing to their excellent chemical resistance, are bolstering the market growth. Besides this, there's an ongoing surge in demand across various industries to process and securely dispose of hazardous industrial waste, which is aiding in market expansion. Furthermore, the implementation of supportive governmental policies, coupled with an increase in research and development (R&D) efforts that aid manufacturers in adhering to production standards and managing environmental pollution, are presenting remunerative growth opportunities for the market.

Geosynthetics Market Trends/Drivers:
Growing construction activities

One of the most significant drivers of the global geosynthetic market is the rising number of construction activities worldwide, particularly in developing nations. As infrastructure development continues at a rapid pace, there is a rising demand for materials that can effectively address soil stabilization and erosion control. Geosynthetics, being highly versatile and durable, are extensively used in a wide variety of civil construction projects, including roads, bridges, tunnels, landfills, and embankments. Their ability to enhance the mechanical and physical properties of soil makes them an ideal solution in construction scenarios, bolstering their market growth.

Increasing environmental consciousness and regulatory pressure

The escalating environmental consciousness has become a vital aspect of modern business practices. There is an increasing trend towards using green roofs and walls, primarily aimed at preventing soil erosion and improving water management systems. Geosynthetics play a crucial role in such applications, contributing to their increasing demand. Concurrent with this, various governments worldwide are implementing stricter

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regulations regarding waste management and soil erosion, compelling industries to employ effective solutions such as geosynthetics, which is presenting remunerative growth opportunities for the market.

Expanding product adoption across various industries

The surge in the use of geosynthetics across several industries, including transportation, mining, and agriculture, represents one of the prime factors impelling the market growth. In line with this, the increasing use of geosynthetics in the flourishing transport sector to strengthen and stabilize the soil in railway tracks and roadways is presenting lucrative opportunities for the market. Moreover, the growing need for wastewater management in various industries is propelling the demand for geosynthetics, particularly geomembranes, for their chemical resistance. Besides this, the increasing need to process and safely dispose of hazardous industrial waste further impels the demand for geosynthetics in these industries.

Geosynthetics Industry Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global geosynthetics market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on product, type, material and application.

Breakup by Product:

Geotextiles
Geomembranes
Geogrids
Geonets
Geosynthetic Clay Liner (GCL)
Pre-Fabricated Vertical Drains (PVD)
Others

Geomembranes dominate the market

The report has provided a detailed breakup and analysis of the market based on the product. This includes geotextiles, geomembranes, geogrids, geonets, geosynthetic clay liner (GCL), pre-fabricated vertical drains (PVD), and others. According to the report, geomembranes represented the largest segment.

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The growing necessity for effective water conservation and management has emerged as a significant factor propelling the demand for geomembranes. With their impermeability and durability, geomembranes play a crucial role in preserving water resources, especially in regions experiencing water scarcity. Moreover, they are frequently employed in lining water reservoirs, canals, and ponds to prevent water loss through seepage, which contributes to their increasing demand. In addition to this, the bolstering growth of the aquaculture industry, which relies heavily on geomembranes to create reliable and sustainable fish farming environments, is acting as another significant growth-inducing driver. Furthermore, the escalating demand for desalination plants, primarily in arid regions, is propelling the need for these geosynthetic materials.

Breakup by Type:

Woven
Non-Woven
Knitted
Others

Woven holds the largest share in the market

A detailed breakup and analysis of the market based on the type has also been provided in the report. This includes woven, non-woven, knitted, and others. According to the report, woven accounted for the largest market share.

The rising demand for woven geosynthetics is significantly driven by their robust load distribution and soil reinforcement capabilities. Their high tensile strength and dimensional stability make them an optimal choice for large-scale infrastructure projects that demand reliable soil reinforcement and separation applications, creating a positive market outlook. Moreover, these geosynthetics are widely utilized in applications such as retaining walls, steepened slopes, and embankment reinforcement, which is aiding in market expansion. Furthermore, the burgeoning renewable energy sector presents lucrative growth opportunities for woven geosynthetics. Their usage in wind farm projects for access road construction and turbine base stabilization and in solar farms for erosion control and soil stabilization is significantly driving their demand in this green energy sector.

Breakup by Material:

Polypropylene

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Polyester
Polyethylene
Polyvinyl Chloride
Synthetic Rubber
Others

Polypropylene dominates the market

The report has provided a detailed breakup and analysis of the market based on the material. This includes polypropylene, polyester, polyethylene, polyvinyl chloride, synthetic rubber, and others. According to the report, polypropylene represented the largest segment.

The demand for polypropylene geosynthetics is gaining momentum due to their unique properties and advantages. Polypropylene, being highly resistant to most acids, alkalis, and salts, provides excellent performance in varied environmental conditions, making it ideal for applications in harsh or chemically challenging environments. Furthermore, polypropylene geosynthetics possess superior elongation characteristics and excellent tensile strength, making them beneficial in applications requiring strain accommodation. Another factor contributing to their market growth is the increasing demand for cost-effective and durable materials for soil stabilization and reinforcement, where polypropylene geosynthetics are seeing substantial usage. In addition to this, the ongoing expansion of the packaging industry, which leverages these geosynthetics for their durability and lightweight properties, is influencing the market growth.

Breakup by Application:

Road Construction and Pavement Repair
Railroads
Drainage Systems
Soil Reinforcement and Erosion
Water and Waste Management
Others

Road construction and pavement repair holds the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes road construction and pavement repair, railroads, drainage systems, soil reinforcement and erosion, water and waste management, and

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others. According to the report, road construction and pavement repair accounted for the largest market share.

The surge in demand for geosynthetics in road construction and pavement repair can be attributed to their exceptional characteristics that enhance pavement performance and lifespan. Geosynthetics offer cost-effective solutions for reinforcing weak subgrade soils, reducing rutting, and preventing reflective cracking. Furthermore, they assist in maintaining the aggregate material's thickness, reducing overall construction costs. Besides this, the growing global emphasis on building resilient transportation infrastructure that can withstand heavy loads and harsh weather conditions is propelling the demand for geosynthetics. Furthermore, the advent of green roads and paved surfaces that minimize environmental impact is a critical factor driving the use of geosynthetics, given their sustainable and energy-efficient attributes.

Breakup by Region:

Asia Pacific
Europe
North America
Middle East and Africa
Latin America

Asia-Pacific exhibits a clear dominance, accounting for the largest geosynthetics market share

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia-Pacific, Europe, North America, Middle East and Africa, and Latin America. According to the report, Asia Pacific represented the largest market.

The demand for geosynthetics in the Asia Pacific region is primarily driven by the rapid urbanization and infrastructure development in the region's emerging economies, including China, India, and Southeast Asian countries. These nations are witnessing a surge in construction projects, including residential, commercial, and public infrastructure developments, which require efficient and cost-effective soil reinforcement and stabilization solutions. Additionally, the region is experiencing a surge in transport infrastructure projects, including the construction of highways, railways, and airports, further fueling the demand for geosynthetics. The region's escalating concerns about environmental conservation, leading to stricter regulations on waste management and erosion control, also contribute significantly to the growing demand for geosynthetic

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materials.

Competitive Landscape:
The global geosynthetic market presents a competitive and diverse landscape, marked by the presence of numerous international and regional players. Key market participants often engage in a variety of strategies, such as product innovation, mergers and acquisitions, and expansion of production capacities to gain a competitive edge. Besides this, the rising emphasis on the development of eco-friendly or green geosynthetics has been observed among leading market players, responding to the increasing global demand for sustainable construction solutions. Furthermore, technological advancements have also heightened collaborations between companies and research institutions. Despite the fierce competition, new entrants have opportunities due to the burgeoning demand across various sectors.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Fiberweb
GEO Synthetics LLC
Agru America Inc.
Asahi Kasei Advance Corporation
Belton Industries
Polymer Group
HUESKER inc.
Carthage Mills
Thrace Group
Hanes Geo Components
Tenax Group
GSE Environmental
Swicofil AG
Owens Corning
Low & Bonar

Recent Developments:
In March 2023, GSI Geo-Synthetics Systems LLC announced the opening of a new construction products location in Menasha, WI. It is part of their strategy to establish distribution locations in key markets.
In 2022, Asahi Kasei introduced RespiGard™, a waterproof and breathable

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polypropylene membrane. It is naturally hydrophobic, lightweight, and has a high porosity. It can be laminated to fabric for applications in outdoor furniture, outdoor roofing, draperies, and sportswear. The polypropylene-based membrane is recyclable and free of perfluorocarbons.
In 2022, Hanes Geo Components acquired Nilex, Inc. and its subsidiary Nilex USA Inc. The acquisition will strengthen both companies' ability to provide erosion control, stormwater management, subgrade stabilization, gabion systems, engineered walls, and containment liners.

Key Questions Answered in This Report:
How has the global geosynthetics market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global geosynthetics market?
What is the impact of each driver, restraint, and opportunity on the global geosynthetics market?
What are the key regional markets?
Which countries represent the most attractive geosynthetics market?
What is the breakup of the market based on the product?
Which is the most attractive product in the geosynthetics market?
What is the breakup of the market based on the type?
Which is the most attractive type in the geosynthetics market?
What is the breakup of the market based on the material?
Which is the most attractive material in the geosynthetics market?
What is the breakup of the market based on the application?
Which is the most attractive application in the geosynthetics market?
What is the competitive structure of the global geosynthetics market?
Who are the key players/companies in the global geosynthetics market?

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Contents

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7 MARKET BREAKUP BY TYPE

8 MARKET BREAKUP BY MATERIAL

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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