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Eco-friendly Packaging Materials Market Forecasts to 2032 – Global Analysis By Packaging Type (Primary Packaging, Secondary Packaging and Tertiary Packaging), Material, Format, Process, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Eco-friendly Packaging Materials Market is accounted for $262.70 billion in 2025 and is expected to reach $535.17 billion by 2032 growing at a CAGR of 10.7% during the forecast period. Eco-friendly packaging focuses on reducing environmental harm through sustainable, biodegradable, and recyclable materials. Common types include plant-based plastics, recycled paper, and compostable alternatives that naturally decompose without damaging ecosystems. Companies increasingly implement such packaging to comply with regulations, attract eco-conscious consumers, and minimize carbon emissions. Advances in material technology allow the creation of durable, lightweight, and functional packaging solutions. Transitioning from conventional materials to sustainable options helps reduce landfill accumulation, lower greenhouse gases, and foster a circular economy.

According to the World Economic Forum, packaging is recognized as the largest source of plastic waste globally. Supporting data from the OECD's Global Plastics Outlook (reported by Our World in Data) shows that packaging accounts for around 40% of total plastic waste worldwide—with regional shares of 37% in the United States, 38% in Europe, and 45% in China.

Market Dynamics:

Driver:

Increasing environmental awareness

Growing environmental consciousness among consumers and businesses is a major factor propelling the eco-friendly packaging market. Awareness of plastic pollution, greenhouse gas emissions, and waste challenges has led to higher demand for sustainable packaging options. Companies are integrating biodegradable, recyclable, and compostable materials to reduce environmental impact and meet consumer expectations. Government regulations further encourage adoption of eco-friendly practices and innovation in packaging. This rising commitment to environmental stewardship fuels market expansion, motivating industries to prioritize sustainable materials and solutions that minimize ecological harm while supporting long-term environmental preservation and responsible consumption practices.

Restraint:

High production costs

The high cost of producing eco-friendly packaging materials is a significant market restraint. Sustainable options like biodegradable plastics, plant-based materials, and recycled polymers involve complex manufacturing processes and expensive raw materials, raising production expenses. These costs are typically reflected in higher consumer prices, making eco-friendly products less accessible. Smaller businesses often struggle to adopt these solutions due to budget constraints. As a result, price sensitivity among consumers can hinder market growth. Limited economies of scale and the financial demands of producing sustainable packaging continue to restrict widespread adoption, slowing the overall expansion of eco-friendly packaging solutions across industries worldwide.

Opportunity:

Growing demand from food & beverage industry

The food and beverage sector offers vast potential for the eco-friendly packaging market. Rising consumer demand for sustainable, safe, and hygienic packaging is encouraging businesses to adopt biodegradable, recyclable, and compostable materials. This trend is especially evident in ready-to-eat meals, beverages, and takeout services, where packaging ensures product protection and enhances brand image. Manufacturers can capitalize on this opportunity by providing innovative, eco-friendly solutions that maintain freshness and safety while promoting environmental responsibility. With growing regulatory support and heightened consumer awareness, the food and beverage industry is expected to drive consistent growth, creating substantial long-term opportunities for the adoption of sustainable packaging materials.

Threat:

Intense competition from conventional packaging

Eco-friendly packaging faces challenges from traditional packaging, which remains more cost-effective, widely accessible, and established. Conventional plastics, laminates, and synthetic materials provide high durability, easy production, and low costs, appealing to both businesses and consumers. Established supply chains and economies of scale give conventional options a competitive edge over sustainable alternatives. Even with rising environmental awareness, some companies may prioritize affordability and convenience over sustainability. This strong competition limits the adoption of eco-friendly packaging, constrains market growth, and compels businesses to find a balance between economic efficiency and environmental responsibility while promoting sustainable materials in a highly price-sensitive market.

Covid-19 Impact:

COVID-19 had a dual effect on the eco-friendly packaging market. Supply chain disruptions, labor shortages, and raw material scarcity temporarily hindered production and distribution of sustainable packaging solutions. Biodegradable polymers and recycled materials were harder to source, causing delays for manufacturers. Conversely, the pandemic increased demand for packaged products, e-commerce deliveries, and takeout services, raising the need for hygienic and protective packaging. This trend pushed companies to adopt eco-friendly alternatives that balance safety with environmental responsibility. Ultimately, the pandemic exposed challenges in production and logistics while simultaneously accelerating awareness and opportunities for growth in the sustainable packaging market globally.

The paper & paperboard segment is expected to be the largest during the forecast period

The paper & paperboard segment is expected to account for the largest market share during the forecast period due to their sustainability, versatility, and affordability. They are extensively used in industries such as food and beverage, retail, cosmetics, and e-commerce because they offer strength, lightweight protection, and excellent branding potential. Their recyclability and compostability enhance environmental benefits, meeting both consumer and regulatory expectations. The adaptability of paper and paperboard to different packaging designs and formats further strengthens their appeal. Coupled with widespread availability and support for sustainable practices, these materials maintain the largest market share, making them the preferred choice for manufacturers seeking effective, eco-conscious packaging solutions.

The pouches segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pouches segment is predicted to witness the highest growth rate due to their lightweight, flexible, and versatile nature. They are increasingly used in food, beverages, personal care, and pharmaceutical products because they minimize material consumption, cut transportation costs, and enhance product shelf life. Pouches made from recyclable, compostable, or biodegradable materials cater to rising consumer demand for sustainable options. Their adaptability enables easy branding, customization, and functional improvements such as resealable designs. Innovations in sustainable pouch materials, combined with the focus on reducing environmental impact, are fueling rapid adoption, establishing pouches as the segment with the highest growth rate in the eco-friendly packaging industry.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid industrial growth, a large population, and heightened environmental awareness. Expanding sectors such as food and beverage, retail, and e-commerce are driving strong demand for biodegradable, recyclable, and compostable packaging materials. Countries including China, India, and Japan are enforcing strict regulations on single-use plastics and supporting sustainable packaging initiatives. Increasing disposable incomes and evolving consumer lifestyles further boost the adoption of eco-friendly solutions. Combined with supportive government policies and growing industrialization, these factors make Asia-Pacific the leading region in the global market, maintaining the largest share in eco-friendly packaging materials worldwide.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by heightened consumer environmental awareness, strict sustainability regulations, and increasing business adoption of green practices. Strong demand for recyclable, compostable, and biodegradable packaging in food, beverage, pharmaceutical, and personal care industries is fueling expansion. Companies are investing in innovative solutions to reduce environmental impact and comply with regulations. Government initiatives and growing consumer preference for sustainable products are motivating manufacturers to shift toward eco-friendly materials. Combined with technological advancements and a supportive industrial ecosystem, these factors position North America as the region with the highest growth rate in the global eco-friendly packaging materials market.

Key players in the market

Some of the key players in Eco-friendly Packaging Materials Market include EcoEnclose, Packmile, Be Green Packaging, Amcor, Mondi Group, Tetra Pak International SA, Elevate Packaging, Imex Packaging, DS Smith, Tiny Box Company, Puffy Stuff, Rocket Industrial, Notpla, Ball Corporation and Smurfit WestRock.

Key Developments:

In April 2025, Amcor plc announced the successful completion of its all-stock combination with Berry Global. Through this combination, Amcor enhances its position as a global leader in consumer and healthcare packaging solutions with the unique material science and innovation capabilities required to revolutionize product development and meet customers' and consumers' sustainability aspirations.

In March 2025, DS Smith has announced an extension of the firm's contractual agreement to create fibre-based packaging solutions for JLR. The five-year ?108 million contract will see DS Smith supply the JLR Mercia campus with a 'one-stop-shop' solution for packaging products that are inclusive of inbound product packaging, outbound shipping packaging, and warehouse storage.

In March 2024, Mondi has announced an agreement in principle for a potential all-share offer to acquire its smaller rival DS Smith for ?5.14bn. The agreement follows after Mondi confirmed last month that it was considering a possible all-share offer for its competitor DS Smith. This deal would potentially create a packaging giant with a market value exceeding ?10bn.

Packaging Types Covered:

Primary Packaging

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Secondary Packaging

Tertiary Packaging

Materials Covered:

Paper & Paperboard

Bioplastics

Glass

Metals

Molded Fiber

Other Materials

Formats Covered:

Bottles

Pouches

Trays

Other Formats

Processes Covered:

Recyclable

Biodegradable

Compostable

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Reusable

Applications Covered:

Food & Beverages

Pharmaceuticals

Cosmetics & Personal Care

E-commerce & Retail

Industrial Goods

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

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10 GLOBAL ECO-FRIENDLY PACKAGING MATERIALS MARKET, BY GEOGRAPHY

11 KEY DEVELOPMENTS

11.1 Agreements, Partnerships, Collaborations and Joint Ventures
11.2 Acquisitions & Mergers
11.3 New Product Launch
11.4 Expansions
11.5 Other Key Strategies

12 COMPANY PROFILING

12.1 EcoEnclose
12.2 Packmile
12.3 Be Green Packaging
12.4 Amcor
12.5 Mondi Group
12.6 Tetra Pak International SA
12.7 Elevate Packaging
12.8 Imex Packaging
12.9 DS Smith
12.10 Tiny Box Company
12.11 Puffy Stuff
12.12 Rocket Industrial
12.13 Notpla
12.14 Ball Corporation
12.15 Smurfit WestRock

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List Of Tables

LIST OF TABLES

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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