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Packaging Nets Market Forecasts to 2032 – Global Analysis By Product Type (Extruded Nets, Knitted Nets and Other Product Types), Material (Natural, Synthetic, Biodegradable and Recycled Material), Form, Application and By Geography

https://marketpublishers.com/r/P56CD90DBF64EN.html
Date: August 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: P56CD90DBF64EN

Abstracts

According to Stratistics MRC, the Global Packaging Nets Market is accounted for $1.19 billion in 2025 and is expected to reach $1.91 billion by 2032 growing at a CAGR of 6.9% during the forecast period. Packaging nets are two-dimensional templates or layouts that, when folded along predetermined lines, produce three-dimensional packaging boxes. For effective packaging design and production, they are crucial in sectors like retail, food, and e-commerce. They are typically constructed from cardboard or other packaging materials. It is easier to visualize the finished shape and maximize material use when all of the box's faces are laid out flat on a packaging net, which also indicates where to cut and fold. Moreover, these nets are used by designers to produce safe, useful, and aesthetically pleasing packaging that improves the product's presentation and protects it.

According to the U.S. EPA, containers and packaging — especially corrugated boxes — make up 28 % of municipal solid waste (82.22 million tons in 2018), with a recycling rate of 53.9 % overall; paper and paperboard packaging alone accounted for 41.9 million tons, with corrugated boxes achieving an impressive 96.5 % recycling rate.

Market Dynamics:

Driver:

Growth in retail logistics and e-commerce

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Global e-commerce's rapid expansion has greatly increased demand for creative packaging options, particularly those that are portable, safe, and versatile enough to accommodate a wide range of product kinds. Packaging nets usually made of flexible mesh or die-cut cardboard layouts enable effective packaging of items during transportation while lowering weight and increasing space efficiency. They can be quickly converted into 3D forms for last-mile delivery and stored easily due to their 2D nature. Additionally, packaging nets reduce damage rates and packaging volume, which helps to streamline logistics and save costs in light of rising customer expectations regarding product protection and presentation.

Restraint:

High tooling and initial setup costs

The substantial initial outlay needed to design and produce customized die-cut nets or mesh-based packaging formats is one of the main factors limiting the market for packaging nets. CAD software, die-making tools, and occasionally automated folding/gluing machines are used in the production of precision-cut packaging nets; these can be costly for small and medium-sized businesses. Furthermore, particularly in situations involving short-run production, tooling costs for custom packaging designs can reach thousands of dollars per SKU. For some use cases, alternative, ready-made packaging formats like plastic containers or bags may be more appealing due to these fixed costs, which can put off businesses with tight packaging budgets or frequent product changes.

Opportunity:

Adoption of customized and high-end retail packaging

Packaging nets offer a compelling chance for retail differentiation as consumer preferences shift toward individualized and upscale unboxing experiences. They are especially well-suited for luxury goods, gifting, and artisanal products because of their capacity to be die-cut into intricate designs, provide visual appeal, and enable a tactile experience. Well-designed nets can draw attention to the product's shape and branding while increasing perceived value, in contrast to plain boxes or plastic wraps. This is particularly true in markets where shelf appeal is a major factor in consumer choices, like gourmet foods, cosmetics, fashion accessories, and home d?cor. Moreover, the aesthetic possibilities of packaging nets are further enhanced by technologies such as

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laser etching, embossing, and digital printing.

Threat:

Replacement with different packaging technologies

The ongoing creation and uptake of alternative packaging formats that might provide improved performance, cost-effectiveness, or sustainability is one of the biggest risks facing the packaging nets market. Net-based formats face direct competition from innovations in flexible packaging films, vacuum-sealed pouches, bioplastics, and molded pulp trays, particularly in food and industrial applications. These substitutes frequently provide longer shelf life, improved printability, and improved moisture resistance. Furthermore, new packaging designs that do not require the open structure of a net, such as retail-ready shippers and collapsible rigid containers, can combine the advantages of protection and display. Such innovations have the potential to replace packaging nets in a number of industries if they gain traction, particularly with additional cost or regulatory incentives.

Covid-19 Impact:

The COVID-19 pandemic affected the packaging nets market in a variety of ways, but ultimately in a revolutionary way. On the one hand, production was momentarily slowed and costs went up due to labor shortages, global supply chain disruptions, and shortages of raw materials, especially for manufacturers who depended on imported paperboard or plastic resins. However, the rise in home delivery services, e-commerce, and the need for sanitary, tamper-evident packaging led to a greater use of protective formats like packaging nets, particularly in consumer goods, food, and pharmaceuticals. As companies reassessed their supply chains to cut waste and boost resilience, the pandemic also hastened the transition to lightweight and sustainable packaging.

The extruded nets segment is expected to be the largest during the forecast period

The extruded nets segment is expected to account for the largest market share during the forecast period, motivated by their widespread application in high-volume, cost-sensitive sectors like industrial goods, agriculture, and food packaging. Molten plastic, usually polyethylene (PE) or polypropylene (PP), is forced through a die to form a rigid yet flexible mesh structure in extruded nets. For goods that need ventilation and visibility, like fruits, vegetables, shellfish, and firewood, this technique produces packaging that is lightweight, strong, and extremely breathable. Moreover, they are

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especially desirable for automated packing lines and bulk distribution due to their consistent structure, ease of customization, and reduced production costs.

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

Over the forecast period, the bags segment is predicted to witness the highest growth rate. Growing demand in the food and agriculture industries, especially for packaging fresh produce like onions, citrus fruits, garlic, and shellfish, is the main driver of this growth. Packaging net bags are perfect for retail and logistics applications because they combine cost-effectiveness, breathability, product visibility, and ease of handling. Farmers, distributors, and retailers can streamline packaging operations with their ready-to-use format, particularly in emerging markets where automation levels are still evolving. Additionally, the increasing use of net bags is further supported by the trend toward portion-sized, consumer-friendly packaging as well as the emergence of lightweight, environmentally friendly substitutes for rigid containers.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share, driven by its sophisticated packaging infrastructure, strict sustainability regulations, and robust agricultural output. Major producers and exporters of fresh fruits, vegetables, and shellfish, including Spain, France, Italy, and Germany, heavily rely on packaging nets for safe and breathable transportation. The transition to recyclable and biodegradable packaging nets has also been accelerated by the European Union's commitment to environmental goals, such as the EU Green Deal and stringent plastic reduction policies, particularly in the food and consumer goods sectors. Furthermore, the region's market dominance is also aided by widespread adoption of automated packaging technologies, high consumer awareness, and government incentives for sustainable packaging.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by accelerating industrialization, rising agricultural exports, and an increasing need for lightweight, reasonably priced packaging options. The food, agriculture, and retail industries in nations like China, Vietnam, Thailand, and India are increasingly using packaging nets due to factors like growing middle-class consumption, better cold chain logistics, and government support for environmentally friendly farming and packaging methods. Moreover, Asia-Pacific stands as the region with the fastest

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rate of growth for both knitted and extruded packaging nets as environmental consciousness grows and regulatory frameworks pertaining to packaging waste become more robust.

Key players in the market

Some of the key players in Packaging Nets Market include Krishna Polynet, Satya Group, Indonet Plastic Industries, Packnatur GmbH, Chemco Group, Intermas Nets, Gir? Group, Maruti Plastic, GR Polynets and EXPO-NET Inc.

Key Developments:

In May 2025, Chemco Group and Kandoi Group of Industries have announced a groundbreaking joint venture. The collaboration entails a substantial investment of Rs. 450 crore to establish two state-of-the-art, fully integrated greenfield manufacturing facilities in Flexible Intermediate Bulk Container (FIBC). These facilities will be dedicated to the production of high-performance Flexible Intermediate Bulk Container (FIBC) bags entirely from recycled Polyethylene Terephthalate (rPET).

In April 2024, Giro Pack Inc. has added Ian Sellers to its sales team to focus on the sales of automation projects developed and executed by Serfruit S.A. Serfruit has more than 30 years of experience in industrial automation solutions with expertise in the fruit and vegetable and perishable food sectors, according to a news release. The company and Giro Pack are both part of Giro Group.

Product Types Covered:

- Extruded Nets
- Knitted Nets
- Other Product Types

Materials Covered:

- Natural
- Synthetic

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- Biodegradable
- Recycled Material

Forms Covered:

- Bags
- Rolls

Applications Covered:

- Food Packaging
- Non-food Packaging

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France

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- Spain
- Rest of Europe

Asia Pacific

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

South America

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- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar

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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

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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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