

# **Global 3D Printed Packaging Market Size Study, by Material (Plastics, Paper & Paperboard, Aluminum), Technology, Application, and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G734C6EB4B13EN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G734C6EB4B13EN

## **Abstracts**

The Global 3D Printed Packaging Market is anticipated to grow from USD 1.25 billion in 2023 to USD 2.20 billion by 2032, at a steady CAGR of 5.5% during the forecast period from 2024 to 2032. This market exemplifies the intersection of technological innovation and packaging design, where 3D printing is revolutionizing the production process with customized, sustainable, and cost-efficient solutions. The surge in demand for advanced packaging that meets the dual objectives of functionality and aesthetic appeal is propelling the adoption of 3D printing technologies across diverse industries.

As packaging becomes an essential component of brand differentiation, industries are leveraging 3D printing to craft personalized and intricate packaging designs that resonate with consumers. The technology enables rapid prototyping, reduced material wastage, and production flexibility, driving significant cost advantages. The use of plastics remains predominant in the market due to its versatility and ease of use, while materials like paper & paperboard are gaining traction for their eco-friendly attributes, aligning with the growing emphasis on sustainability. Additionally, aluminum is increasingly utilized for high-end and specialty packaging applications, owing to its durability and recyclability.

Despite its promising trajectory, the market encounters hurdles such as high initial setup costs for 3D printing technologies and the complexities associated with integrating these systems into existing production lines. However, ongoing advancements in 3D printing materials and methods, along with government initiatives promoting sustainable packaging solutions, are expected to mitigate these challenges. The rising adoption of

additive manufacturing across sectors such as food & beverage, healthcare, and consumer goods underscores the market's potential for sustained growth.

Geographically, the Asia Pacific region dominates the market, driven by robust industrialization, an expanding e-commerce sector, and rising consumer preference for innovative packaging in countries like China, Japan, and India. North America and Europe also hold significant market shares, propelled by technological advancements and strong regulatory frameworks supporting sustainable packaging practices. Meanwhile, the Middle East & Africa and Latin America are emerging as lucrative markets, benefiting from increasing investments in industrial development and growing awareness of 3D printed packaging solutions.

Major market players included in this report are:

Stratasys Ltd.

Materialise NV

3D Systems Corporation

HP Inc.

Ultimaker BV

Proto Labs, Inc.

EOS GmbH

Sculpteo

GE Additive

BigRep GmbH

Carbon, Inc.

Xometry, Inc.

Shapeways, Inc.

AddUp

BCN3D Technologies

The detailed segments and sub-segment of the market are explained below:

By Material:

Plastics

Paper & Paperboard

Aluminum

By Technology:

Additive Manufacturing

Rapid Prototyping

Other Technologies

By Application:

Food & Beverage

Consumer Goods

Healthcare

Industrial Goods

Other Applications

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market estimates & forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market

approaches.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

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