

3D Printed Paper and Paperboard Packaging Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Market Report | 2025-03-31 | 160 pages | Global Market Insights

AVAILABLE LICENSES:

- Single User \$4850.00
- Multi User \$6050.00
- Enterprise User \$8350.00

Report description:

The Global 3D Printed Paper & Paperboard Packaging Market generated USD 345.4 million in 2024 and is projected to grow at a CAGR of 9.7% from 2025 to 2034. This rapid growth is driven by several key factors, including the increasing consumer demand for personalized, unique packaging solutions. As consumer preferences evolve, businesses are turning to innovative technologies like 3D printing to meet these growing demands. 3D printing offers a versatile, efficient way to produce packaging that is both functional and customizable, creating an attractive option for industries seeking to differentiate themselves in competitive markets.

Environmental awareness is another major driver of this market's expansion. Consumers and businesses alike are shifting toward eco-friendly solutions as sustainability continues to be a priority across industries. 3D printed paper and paperboard packaging provide an environmentally responsible alternative to traditional plastic options. These sustainable materials are biodegradable, and recyclable, and help reduce material waste, making them an attractive choice for companies striving to meet stricter sustainability regulations while delivering greener packaging options to their customers. As a result, 3D printed paper and paperboard packaging is becoming increasingly popular in sectors where environmental impact is a primary concern.

The market is divided into several key packaging segments, including boxes and containers, inserts and dividers, and dispensing products. In 2024, the boxes and containers segment led the market with a valuation of USD 163.1 million. The growing demand for 3D printed boxes and containers spans across industries like e-commerce, food and beverage, and retail. As businesses face increased pressure to minimize plastic waste, 3D printed paperboard packaging offers a sustainable, high-quality, and customizable alternative. This lightweight solution helps companies reduce packaging waste while delivering the durability and functionality required for shipping and product storage.

Printing technology is a critical factor shaping the market. Several 3D printing techniques are utilized in the production of paper and paperboard packaging, such as binder jetting, laminated object manufacturing (LOM), inkjet 3D printing, and polyjet printing. Of these, binder jetting is expected to see significant growth, projected to generate USD 283.5 million by 2034. Binder jetting is particularly favored for its ability to produce complex, custom packaging designs quickly while minimizing material waste and offering strong, lightweight packaging structures.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

In the U.S., the 3D Printed Paper & Paperboard Packaging Market was valued at USD 90 million in 2024. This market's rapid growth is largely attributed to the increasing focus on sustainability within the packaging sector. U.S. businesses are increasingly adopting 3D printing technology to develop packaging solutions that are not only sustainable but also energy-efficient. This cutting-edge approach enables more precise production, reducing material waste and making packaging designs better suited to the products they house. This leads to lower transportation costs and reduced emissions, further enhancing the appeal of 3D printed packaging for U.S. companies.

Table of Contents:

Report Content

Chapter 1 Methodology And Scope

1.1 Market scope and definitions

1.2 Research design

1.2.1 Research approach

1.2.2 Data collection methods

1.3 Base estimates and calculations

1.3.1 Base year calculation

1.3.2 Key trends for market estimation

1.4 Forecast model

1.5 Primary research and validation

1.5.1 Primary sources

1.5.2 Data mining sources

Chapter 2 Executive Summary

2.1 Industry 360° synopsis

Chapter 3 Industry Insights

3.1 Industry ecosystem analysis

3.2 Industry impact forces

3.2.1 Growth drivers

3.2.1.1 Rising demand for sustainable packaging

3.2.1.2 Increasing customization and personalization trends

3.2.1.3 Advancements in 3D printing technology

3.2.1.4 Growing adoption in E-commerce & retail

3.2.1.5 Reduction in material waste and production costs

3.2.2 pitfalls and challenges

3.2.2.1 High initial investment & production costs

3.2.2.2 Limited scalability for mass production

3.3 Growth potential analysis

3.4 Regulatory landscape

3.5 Technology landscape

3.6 Future market trends

3.7 Gap analysis

3.8 Porter's analysis

3.9 PESTEL analysis

Chapter 4 Competitive Landscape, 2024

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive analysis of major market players

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4.4 Competitive positioning matrix

4.5 Strategy dashboard

Chapter 5 Market Estimates and Forecast, By Product Type, 2021 - 2034 (\$ Mn)

5.1 Key trends

5.2 Boxes & containers

5.3 Inserts & dividers

5.4 Dispensing products

5.5 Others

Chapter 6 Market Estimates and Forecast, By Printing Technology, 2021 - 2034 (\$ Mn)

6.1 Key trends

6.2 Binder jetting

6.3 Laminated Object Manufacturing (LOM)

6.4 Inkjet 3D printing

6.5 PolyJet printing

6.6 Others

Chapter 7 Market Estimates and Forecast, By Application, 2021 - 2034 (\$ Mn)

7.1 Key trends

7.2 Food & beverage packaging

7.3 Cosmetics packaging

7.4 Pharmaceutical packaging

7.5 Consumer goods packaging

7.6 Industrial goods packaging

7.7 Electronics packaging

7.8 Others

Chapter 8 Market Estimates and Forecast, By Region, 2021 - 2034 (\$ Mn)

8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.3 Europe

8.3.1 Germany

8.3.2 UK

8.3.3 France

8.3.4 Spain

8.3.5 Italy

8.3.6 Netherlands

8.4 Asia Pacific

8.4.1 China

8.4.2 India

8.4.3 Japan

8.4.4 Australia

8.4.5 South Korea

8.5 Latin America

8.5.1 Brazil

8.5.2 Mexico

8.5.3 Argentina

8.6 Middle East and Africa

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8.6.1 Saudi Arabia

8.6.2 South Africa

8.6.3 UAE

Chapter 9 Company Profiles

9.1 3D Systems Corporation

9.2 BigRep GmbH

9.3 EnvisionTEC GmbH

9.4 EOS GmbH

9.5 ExOne (a Desktop Metal company)

9.6 HP Inc.

9.7 Lithoz GmbH

9.8 Markforged Inc.

9.9 Materialise NV

9.10 Mimaki Engineering Co. Ltd.

9.11 Roland DG Corporation

9.12 SLM Solutions Group AG

9.13 Stratasys Ltd.

9.14 voxeljet AG

9.15 XYZprinting Inc.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

3D Printed Paper and Paperboard Packaging Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Market Report | 2025-03-31 | 160 pages | Global Market Insights

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4850.00
	Multi User	\$6050.00
	Enterprise User	\$8350.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-26"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com