

## **Global CO2-Based Plastics Market**

Market Research Report | 2025-09-26 | 87 pages | BCC Research

### **AVAILABLE LICENSES:**

- Single User License \$2950.00
- 2-5 Users License \$3540.00
- Site License \$4248.00
- Enterprise License \$5100.00

### **Report description:**

Description

Report Scope

The report includes details about products, production processes and applications for CO2-based plastics. Estimated values are based on manufacturers' total revenues. Projected revenue values are in constant U.S. dollars, unadjusted for inflation. The report also contains comprehensive information regarding CO2-based plastics and their users.

The global CO2-based plastics market is segmented into the following categories:

- By product type (polycarbonates, polyurethanes, polypropylene carbonate, polyethylene carbonate, polyethylene terephthalate, and other).
- By production process (electrochemistry, microbial synthesis and thermocatalysis).
- By application (packaging, automotive components, construction materials, electronic components, textile processing and other).
- By region (North America, Europe, Asia-Pacific, Rest of the World (RoW)).

Report Includes

- In-depth analysis of the global markets for CO2-based plastics
- Analyses of the global market trends, with revenue data for 2024, estimates for 2025, forecasts for 2029, and projections of CAGRs through 2030
- Estimates of the current market size and revenue prospects of the global market, along with a market share analysis by product type, production process, application and region
- Facts and figures about market dynamics, opportunities and deterrents, technological advances, regulations, innovations and standards and the impacts of macroeconomic variables
- Analysis of the industry structure, including companies' market shares and rankings, strategic initiatives, M&A activity and a venture funding outlook
- Profiles of the leading companies

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Executive Summary

### Summary:

This report provides an overview of the global CO<sub>2</sub>-based plastics market and analyzes industry trends. It includes global revenue (\$ millions) for the base year data of 2024 and estimated data for the forecast period 2025 through 2030. The report focuses on the significant driving trends and challenges that affect the global market and its vendor landscape.

The report includes details about products, production processes and applications for CO<sub>2</sub>-based plastics. Estimated values are based on manufacturers' total revenues. Projected revenue values are in constant U.S. dollars, unadjusted for inflation. The report also contains comprehensive information regarding CO<sub>2</sub>-based plastics and their users.

### Table of Contents:

Table of Contents
Chapter 1 Executive Summary
Market Outlook
Scope of Report
Market Summary
Market Dynamics and Growth Factors
Emerging Technologies
Future Trends and Developments
Regional and Emerging Markets
Segmental Analysis
Conclusion
Chapter 2 Market Overview
Market Definition
Factors Affecting the CO <sub>2</sub> -Based Plastics Market
Importance of CO <sub>2</sub> -Based Plastics
Chapter 3 Market Dynamics
Key Takeaways
Market Dynamics Snapshot
Market Drivers
Net-Zero Commitments and Mounting CO <sub>2</sub> -Based Plastics Consumption
Growing Scientific Research in Packaging Applications
Market Restraints
Lack of Technical Knowledge and Awareness
Rivalry and Synergies with Bioplastics
Market Opportunities
Partnerships and Collaborations
Opportunities for Textile Applications
Market Challenges
High Initial Investment
Performance Limitations
Chapter 4 Emerging Technologies and Developments
Key Takeaways
Newest Technology

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

Production of Biodegradable Plastics from CO2 Emissions  
Groundbreaking Technology for Carbon Capture  
Evolution of Volta Technology  
Chapter 5 Supply Chain Analysis of the Global CO2-Based Plastics Market  
Overview  
Supply Chain Analysis of the Global CO2-Based Plastics Market  
Manufacturers  
Sales  
Chapter 6 Market Segmentation Analysis  
Key Takeaways  
Segmentation Breakdown  
Market Analysis, by Product Type  
Polyurethanes  
Polycarbonates  
Polypropylene Carbonate  
Polyethylene Carbonate  
Polyethylene Terephthalate  
Other  
Market Analysis, by Production Process  
Thermocatalysis  
Electrochemistry  
Microbial Synthesis  
Market Analysis, by Application  
Packaging  
Automotive Components  
Construction Materials  
Electronic Components  
Textile Processing  
Others  
Geographic Breakdown  
Key Takeaways  
Market Analysis, by Region  
North America  
Asia-Pacific  
Europe  
Rest of the World (RoW)  
Chapter 7 Competitive Intelligence  
Industry Structure  
Company Ranking Analysis  
Strategic Analysis  
Chapter 8 Appendix  
Methodology  
Information Sources  
References  
Abbreviation  
Company Profile  
ASAHI KASEI CORP.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

AVANTIUM  
CARDIA BIOPLASTICS  
COVESTRO AG  
EMPOWER MATERIALS  
LANZATECH  
LG CHEM  
NATUREWORKS LLC.  
PLASTIPAK HOLDINGS INC.  
TWELVE BENEFIT CORP.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Global CO2-Based Plastics Market

Market Research Report | 2025-09-26 | 87 pages | BCC Research

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 License	\$2950.00
	2-5 Users License	\$3540.00
	Site License	\$4248.00
	Enterprise License	\$5100.00
		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="2026-02-19"/>
		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](mailto:support@scotts-international.com)  
[www.scotts-international.com](http://www.scotts-international.com)