

Global Solvent-based Plastic Recycling Market Size Study, by Recyclable Plastic Type (Polyethylene Terephthalate (PET), High-Density Polyethylene (HDPE), Polyvinyl Chloride (PVC), Low-Density Polyethylene (LDPE), Polypropylene (PP)), by Recycled Plastic Form (Flakes, Pellets, Powder), by Application (Automotive, Packaging, Construction, Consumer Goods, Textiles), by End-Use Product (Bottles, Films, Pipes, Automotive Parts, Construction Materials), and Regional Forecasts 2022-2032

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Abstracts

The Global Solvent-based Plastic Recycling Market is valued at approximately USD 21.43 billion in 2023 and is anticipated to grow at a CAGR of 10.60% over the forecast period 2024-2032. Solvent-based plastic recycling represents a transformative solution in addressing the environmental challenges posed by plastic waste. Unlike conventional methods, this technology selectively dissolves plastic polymers, enabling the recovery of high-purity materials for reuse. With growing global emphasis on sustainability, this innovative recycling approach offers a promising pathway to reducing landfill dependency and curbing pollution, making it a cornerstone of the circular economy.

This market's expansion is driven by rising environmental awareness and regulatory measures aimed at reducing plastic waste. Applications in industries such as automotive, packaging, and construction are boosting demand for recycled plastic forms like flakes, pellets, and powders. For instance, the packaging sector increasingly adopts recycled materials to align with consumer preferences for eco-friendly solutions.

However, challenges such as high processing costs and limited infrastructure in developing regions may hinder growth. Advances in solvent recovery technologies and increased adoption of automation are expected to mitigate these challenges, fostering greater scalability and cost-efficiency.

Regionally, North America dominates the market, supported by stringent environmental policies and robust recycling infrastructure. Europe follows closely, driven by ambitious sustainability targets and investments in advanced recycling technologies. Meanwhile, the Asia-Pacific region is poised for remarkable growth, fueled by rapid industrialization, growing awareness about environmental impacts, and supportive government initiatives in countries like China, Japan, and India. Latin America and the Middle East & Africa are also emerging as significant players, with increasing investments in recycling facilities and growing adoption of sustainable practices across industries.

Major market players included in this report are:

BASF SE

Veolia Environnement S.A.

Indorama Ventures Public Company Limited

LyondellBasell Industries Holdings B.V.

SABIC

Eastman Chemical Company

Dow Inc.

Borealis AG

Loop Industries, Inc.

Green Mantra Technologies

Plastic Energy Ltd.

Teijin Limited

PureCycle Technologies, Inc.

Alpek S.A.B. de C.V.

Suez Recycling & Recovery

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

By Recyclable Plastic Type:

Polyethylene Terephthalate (PET)

High-Density Polyethylene (HDPE)

Polyvinyl Chloride (PVC)

Low-Density Polyethylene (LDPE)

Polypropylene (PP)

By Recycled Plastic Form:

Flakes

Pellets

Powder

By Application:

Automotive

Packaging

Construction

Consumer Goods

Textiles

By End-Use Product:

Bottles

Films

Pipes

Automotive Parts

Construction Materials

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

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 and forecasts for 10 years from 2022 to 2032.

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

Comprehensive insights into geographical trends with country-specific analysis.

Detailed competitive landscape featuring major industry players.

Strategic recommendations and forward-looking insights for stakeholders.

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