

Global Recyclable Thermosets Market Size Study, by Product (UPR, Epoxy, Phenol Formaldehyde, Polyurethane), by Application (Construction, Energy And Power, Automotive, Electrical And Electronics), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GE2E711814B6EN.html>

Date: January 2025

Pages: 285

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

ID: GE2E711814B6EN

Abstracts

The Global Recyclable Thermosets Market, valued at approximately USD 388.54 million in 2023, is anticipated to grow at an impressive CAGR of 9.99% over the forecast period 2024-2032. Recyclable thermosets have emerged as a transformative solution in the materials industry, offering sustainable alternatives to conventional non-recyclable thermoset polymers. By leveraging advanced chemistries and molecular innovations, recyclable thermosets maintain their structural integrity while enabling repurposing, thus addressing critical environmental concerns associated with material waste.

The construction sector is leading the adoption of recyclable thermosets due to their lightweight nature, durability, and resistance to extreme environmental conditions. Furthermore, the automotive industry is increasingly integrating these materials into vehicle components to enhance fuel efficiency and align with global sustainability goals. The energy and power sectors also benefit significantly from thermosets' insulating properties, ensuring long-term performance in harsh operating environments. As industries worldwide intensify their focus on reducing carbon footprints, recyclable thermosets are poised to become indispensable materials across diverse applications.

Despite its promising outlook, the market faces challenges such as high production costs and the complexities involved in integrating recyclable thermosets into established manufacturing processes. However, continuous advancements in chemical recycling technologies and increased investments in R&D are expected to mitigate these barriers, enabling broader adoption and cost-efficiency. Additionally, regulatory policies

promoting circular economies are likely to drive further market expansion, offering lucrative growth opportunities for stakeholders.

Regionally, North America and Europe dominate the recyclable thermosets market, driven by stringent environmental regulations and robust industrial infrastructures. Meanwhile, the Asia-Pacific region is projected to witness the fastest growth, fueled by rapid industrialization, increased construction activities, and rising awareness regarding sustainable materials. Countries such as China, India, and Japan are at the forefront of adopting recyclable thermosets, reinforcing the region's status as a key growth hub.

Major market players included in this report are:

Arkema S.A.

BASF SE

Covestro AG

Huntsman Corporation

Evonik Industries AG

Solvay S.A.

Ashland Global Holdings Inc.

SABIC

DSM Engineering Materials

Toray Industries, Inc.

Hexion Inc.

Lanxess AG

Ube Industries Ltd.

Mitsubishi Chemical Corporation

Dow Inc.

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

By Product:

UPR

Epoxy

Phenol Formaldehyde

Polyurethane

By Application:

Construction

Energy And Power

Automotive

Electrical And Electronics

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 and forecasts for 10 years from 2022 to 2032.

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

Detailed analysis of geographical landscapes with country-level insights.

Comprehensive competitive analysis and strategies of key players.

Actionable recommendations for stakeholders to capitalize on emerging trends.

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