

# **Recyclable Thermosets Market Outlook 2026-2034: Market Share, and Growth Analysis By Product (Unsaturated Polyester Resin (UPR), Epoxy, Phenol Formaldehyde (Phenolic Resin), Polyurethane, Others), By Application (Construction, Energy and Power, Automotive, Electrical and Electronics, Aerospace and Defense, Others)**

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## **Abstracts**

The Recyclable Thermosets Market is valued at USD 465.8 million in 2025 and is projected to grow at a CAGR of 11% to reach USD 1191.5 million by 2034.

### Recyclable Thermosets Market

Recyclable thermosets are reshaping high-performance polymers by embedding circularity into traditionally permanent networks. The portfolio spans reprocessable epoxies, polyurethanes, acrylics, and bismaleimides engineered with dynamic covalent chemistries (e.g., transesterification vitrimers, reversible Diels–Alder, disulfide/imidate exchange) and cleavable comonomers that enable repair, rebonding, and chemical depolymerization. End-uses concentrate in wind turbine blades, automotive structural composites, aerospace interiors and tooling, electronics encapsulants, adhesives, and construction composites - applications where heat resistance, creep stability, and solvent durability remain non-negotiable. Value propositions combine design-for-repair (hot-press reshaping, weldable joints), closed-loop resin recovery, and high-grade fiber reclamation from CFRP/GFRP laminates through solvolysis, glycolysis/aminolysis, and supercritical media. Ecosystem momentum is reinforced by OEM sustainability pledges, EPR and waste directives, and R&D alliances spanning resin suppliers, fiber makers, formulators, and dismantling firms. Critical challenges include balancing throughput and

viscosity control with catalyst stability; achieving parity in hot/wet aging, fatigue, and crashworthiness; qualifying reclaimed fibers and re-resins within aerospace/auto specs; and scaling end-of-life logistics for bulky parts (e.g., blades) across diffuse geographies. Commercial strategies emphasize mass-balance attribution, LCA-backed claims, drop-in processing on existing lines, and service models that bundle take-back, shredding/chemical recycling, and secondary compounding. Standards work (ASTM/ISO) around recycled fiber grading and reprocessible thermoset characterization is advancing, but certification timelines and IP fragmentation still influence adoption curves. Overall, the market is transitioning from pilot programs to early industrialization, led by wind, auto lightweighting, and electronics where circularity and cost-in-use gains can be demonstrated simultaneously.

### Recyclable Thermosets Market Key Insights

**Dynamic networks unlock reprocessability:** Vitrimeric epoxies and reversible-bond systems enable heat-activated flow without sacrificing in-service stability, allowing repair, weld-bonding, and complex joining that extend component life and defer replacements in wind, auto, and aerospace fleets.

**Closed-loop strategies hinge on chemistry matching:** Designing matrices with cleavable linkages tailored to specific solvolysis agents raises monomer/oligomer recovery, reduces downcycling, and improves viscosity control when reincorporating recycled resin into structural or semi-structural parts.

**Fiber reclamation quality is decisive:** Mild-condition chemical routes preserve carbon fiber tensile strength far better than thermal pyrolysis; consistent sizing re-application and fiber length management are essential to meet crash, fatigue, and NVH targets in mobility platforms.

**Processability on existing assets is a moat:** Drop-in resins that run on legacy RTM/infusion/prepreg lines with similar cure windows minimize capex and switching risk; formulators differentiate via latency control, pot-life tuning, and catalyst leaching mitigation.

**Qualification, not chemistry, paces adoption:** Multi-year test matrices for hot-wet T<sub>g</sub> retention, CAI/fatigue, FST/OSU, and dielectric stability govern approvals. Early wins cluster in non-primary structures, progressing to primary load-bearing as datasets mature.

Blade and large-part end-of-life drives scale: Logistics (cutting, transport, siting recyclers near wind corridors) and standardized dismantling protocols determine cost curves; partnerships with cement, panel, and SMC compounders create diversified off-take.

Economic narrative shifts to cost-in-use: Repairability, reduced scrap, and recovered fiber value offset resin premiums; performance-based contracts and take-back credits help OEMs model circular ROI within product lifecycle P&Ls.

Data-backed sustainability claims matter: LCAs, mass-balance certifications, and digital product passports enhance buyer confidence and support procurement under green-public-purchase and supplier scorecards.

Regulatory pull is broadening: EPR/waste directives, landfill restrictions on composites, and green-procurement rules push OEMs toward recyclable matrices; compliance also favors solvent-safe, low-VOC formulations and safer catalyst packages.

Ecosystem consolidation is likely: Resin majors, recyclers, and fiber producers are forming JV/long-term off-take deals to secure feedstock, align specs, and reduce volatility - creating integrated loops from design to recovery and re-manufacture.

## Recyclable Thermosets Market Segmentation

### By Product

Unsaturated Polyester Resin (UPR)

Epoxy

Phenol Formaldehyde (Phenolic Resin)

Polyurethane

Others

## By Application

Construction

Energy and Power

Automotive

Electrical and Electronics

Aerospace and Defense

Others

## Key Market players

Mallinda, Connora Technologies, Aditya Birla Chemicals, Covestro, Arkema (Sartomer), Evonik Industries, Huntsman Advanced Materials, Hexion, Olin Epoxy, Allnex, Scott Bader, AOC Resins, Polynt-Reichhold, Solvay, Henkel

## Recyclable Thermosets Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends. Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Recyclable Thermosets Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are

analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Recyclable Thermosets market data and outlook to 2034

United States

Canada

Mexico

Europe — Recyclable Thermosets market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Recyclable Thermosets market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Recyclable Thermosets market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Recyclable Thermosets market data and outlook to 2034

Brazil

Argentina

Chile

Peru

\* We can include data and analysis of additional countries on demand.

## Research Methodology

This study combines primary inputs from industry experts across the Recyclable Thermosets value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Recyclable Thermosets industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Recyclable Thermosets Market Report

Global Recyclable Thermosets market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Recyclable Thermosets trade, costs, and supply chains

Recyclable Thermosets market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Recyclable Thermosets market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Recyclable Thermosets market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Recyclable Thermosets supply chain analysis

Recyclable Thermosets trade analysis, Recyclable Thermosets market price analysis, and Recyclable Thermosets supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Recyclable Thermosets market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

\* The updated report will be delivered within 3 working days

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