

# Global Post-consumer Recycled Plastics in Electrical & Electronics Market Size Study & Forecast, by Product, Application, and Regional Forecasts 2025-2035

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## Abstracts

The Global Post-consumer Recycled Plastics in Electrical & Electronics Market is valued at approximately USD 0.13 billion in 2024 and is poised to grow at a robust compound annual growth rate of 10.53% over the forecast period 2025-2035. As industries confront mounting regulatory pressure and escalating consumer expectations regarding sustainability, post-consumer recycled (PCR) plastics have emerged as an indispensable solution in the electronics ecosystem. These recycled materials—derived from everyday waste streams like packaging and used devices—are increasingly being re-integrated into the production cycles of electronics and appliances to reduce environmental footprint and comply with circular economy principles. The market's upward trajectory is largely attributed to growing e-waste generation and rising mandates on Extended Producer Responsibility (EPR) compelling manufacturers to incorporate recycled content into new product designs.

Manufacturers operating across consumer electronics and appliance industries are aggressively embracing rABS, rPC, rPP, rPE, rPVC, and rPS to revamp their material strategies. This shift is driven by both brand reputation management and economic incentives, as PCR plastics help offset the volatility and cost of virgin resin supply chains. Notably, recycled polycarbonate (rPC) is gaining traction in high-performance electronics due to its superior thermal stability and structural integrity, while rPP and rABS are widely utilized in housing components for kitchen and home appliances. Innovative material recovery technologies, such as advanced mechanical recycling and solvent-based purification, are playing a pivotal role in enhancing the purity, consistency, and performance of PCR plastics—thus expanding their feasibility across

increasingly sophisticated applications within the electronics value chain.

From a regional lens, Europe leads the charge in integrating post-consumer recycled plastics into the electrical and electronics sector, thanks to stringent EU directives such as the Waste Electrical and Electronic Equipment (WEEE) Directive and robust recycling infrastructure. North America follows closely, with OEMs in the U.S. ramping up investment in closed-loop systems and recycled-content product lines to align with ESG commitments and state-level plastic mandates. Meanwhile, the Asia Pacific region is anticipated to experience the fastest growth, fueled by rising urbanization, vast electronic manufacturing hubs, and government-backed recycling incentives in key economies like China, Japan, South Korea, and India. These regions are also witnessing a rapid expansion in collection and processing capacity, which is instrumental in closing the loop on plastic use in electronics manufacturing.

Major market player included in this report are:

MBA Polymers Inc.

Veolia Environnement SA

Envision Plastics

Indorama Ventures Public Company Limited

KW Plastics

B&B Plastics Inc.

Green Line Polymers

Custom Polymers Inc.

Plastipak Holdings Inc.

SUEZ

Phoenix Technologies

Ultra-Poly Corporation

Clean Tech Incorporated

Panda Environmental Services Inc.

DS Smith Plc

## Global Post-consumer Recycled Plastics in Electrical & Electronics Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Product:

rPC (Recycled Polycarbonate)

rABS (Recycled Acrylonitrile Butadiene Styrene)

rPP (Recycled Polypropylene)

rPE (Recycled Polyethylene)

rPVC (Recycled Polyvinyl Chloride)

rPS (Recycled Polystyrene)

By Application:

Consumer Electronics

Home & Kitchen Appliances

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

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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