

Post-consumer Recycled Plastics In Electrical & Electronics Market Size, Share & Trends Analysis Report By Product (rPC, rABS, rPP, rPE, rPVC, rPS), By Application (Consumer Electronics, Home & Kitchen Appliances), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Post-consumer Recycled Plastics In Electrical & Electronics Market Growth & Trends

The global post-consumer recycled plastics in electrical & electronics market is anticipated to reach USD 249.6 million by 2030 and is anticipated to expand at a CAGR of 10.53% during the forecast period, according to a new report by Grand View Research, Inc. The Post-consumer Recycled (PCR) Plastics in the Electrical and Electronics Market is a rapidly evolving segment within the broader sustainable materials industry, driven by increasing environmental awareness, regulatory mandates, and advancements in recycling technologies. PCR plastics, derived from discarded consumer products such as packaging, electronic waste, and automotive components, are gaining traction as a viable alternative to virgin plastics in electronic casings, connectors, insulation materials, and circuit board substrates. The market is characterized by a growing shift toward circular economy principles, with leading electronics manufacturers integrating recycled content into their supply chains to meet sustainability targets and reduce carbon footprints. Additionally, the improved processing capabilities of PCR plastics, including chemical recycling and enhanced sorting technologies, have enabled their use in high-performance electrical applications without compromising on mechanical strength and safety standards.

A key driver of the PCR plastics market in electrical and electronics is the increasing enforcement of sustainability regulations and corporate commitments to reduce plastic waste. Governments worldwide are implementing strict mandates, such as the European Union's Waste Electrical and Electronic Equipment (WEEE) Directive and Extended Producer Responsibility (EPR) policies, compelling electronics manufacturers to incorporate recycled materials into their products. Furthermore, global technology firms are setting ambitious targets to use post-consumer recycled content, influencing supply chain investments and material sourcing strategies. This regulatory push, combined with consumer demand for eco-friendly electronics, is accelerating market growth. At the same time, advancements in additive formulations and material engineering are addressing historical challenges such as durability, electrical insulation, and thermal resistance, positioning PCR plastics as a competitive and sustainable solution for the electrical and electronics industry.

The market players are focusing on various strategic initiatives such as mergers, acquisitions, and collaborations. For instance, in November 2023, The Consumer Technology Association (CTA) launched the Consumer Technology Circularity Initiative (CTCI) at CES 2024 to cut waste, promote reuse, improve recycling, lower climate impact, and reduce consumer electronics disposal.

Post-consumer Recycled Plastics In Electrical & Electronics Market Report Highlights

Based on product, recycled polycarbonate (rPC) held the largest share, accumulating USD 73.9 million market size in 2024.

Based on application, consumer electronics accounted for the largest share of 32.40% market size in 2024.

Asia Pacific dominated the recycling engineering plastics market. Multinational corporations are increasingly investing in circular economy initiatives, leveraging Asia Pacific's strong manufacturing ecosystem to incorporate high-quality recycled plastics into their supply chains.

China was the leading manufacturer of recycling engineering plastics in the Asia Pacific region and captured around 38% of the revenue market share in 2024 in this region.

Market players operating in recycling engineering plastics market include Eastman Chemical Company, MBA Polymers, Inc., LAVERGNE, Inc., Polyvisions Inc., Trinseo, SABIC, Veolia Environnement S.A., CovestrAG, Dow Inc., and Banyan Nation.

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