

Recycled Engineering Plastics Market Size, Share & Trends Analysis Report By Product (PC, ABS, Nylon, PET, PBT), By Recycling Process (Mechanical Recycling, Chemical Recycling), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Recycled Engineering Plastics Market Growth & Trends

The global recycled engineering plastics market size is anticipated to reach USD 6.30 billion by 2030 and is anticipated to expand at a CAGR of 4.97% during the forecast period, according to a new report by Grand View Research, Inc. The recycled engineering plastics market is a crucial segment of the global sustainable materials industry, driven by the growing need for eco-friendly, high-performance polymers. Recycled engineering plastics, derived from post-consumer and post-industrial waste, are widely used in industries such as automotive, electronics, construction, and packaging. These materials offer a balance of mechanical strength, thermal stability, and chemical resistance, making them a viable alternative to virgin plastics in demanding applications. As sustainability regulations tighten and industries shift toward circular economy practices, the adoption of recycled engineering plastics is becoming increasingly mainstream, particularly in regions with strict environmental policies.

One of the primary drivers of growth in the recycled engineering plastics market is the rising global emphasis on carbon footprint reduction and waste management. Companies across multiple industries are actively incorporating recycled polymers to meet regulatory mandates, such as extended producer responsibility (EPR) programs and minimum recycled content requirements. In addition, innovations in mechanical and

chemical recycling technologies have improved the quality and performance of recycled materials, enabling their use in critical applications such as automotive interiors, electronic housings, and high-durability packaging. As both corporate sustainability commitments and consumer awareness of eco-friendly materials increase, the market for recycled engineering plastics is poised for continued expansion.

The market players are focusing on various strategic initiatives such as mergers, acquisitions, and collaborations. For instance, in February 2024, Azek, an outdoor living products manufacturer, expanded its recycling capabilities by acquiring Northwest Polymers, a recycling company specializing in post-industrial and post-commercial plastics.

Recycled Engineering Plastics Market Report Highlights

Based on product type, polycarbonate held the largest share, accumulating USD 1.31 billion market size in 2024.

Mechanical recycling dominated the recycling process segmentation and accounted for the largest revenue share of over 36.64% in 2024.

Based on application, automotive accounted for the largest share of 33.61% market size in 2024.

Asia Pacific dominated the recycling engineering plastics market. Multinational corporations with manufacturing bases in Asia are implementing closed-loop recycling systems to improve resource efficiency and reduce reliance on virgin polymers, further boosting the regional market.

China was the leading manufacturer of recycling engineering plastics in the Asia Pacific region and captured around 33% of the revenue market share in 2024 in this region.

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