Automotive Plastics - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-06-01 | 120 pages | Mordor Intelligence

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Report description:

Automotive Plastics Market Analysis

The Automotive Plastics Market size is estimated at USD 33.52 billion in 2025, and is expected to reach USD 49.64 billion by 2030, at a CAGR of 8.17% during the forecast period (2025-2030). The steady uptick reflects automakers' pivot toward lighter materials to reconcile strict emission rules with performance targets. Accelerated adoption of advanced polymer solutions, especially in electric-vehicle (EV) platforms, is pushing the automotive plastics market well ahead of its historical pace. Asia-Pacific commands almost half of global demand and is compounding at the fastest regional rate, while polypropylene (PP) continues to set the benchmark for cost-to-performance across major vehicle systems.

Global Automotive Plastics Market Trends and Insights

Increasing demand for lightweight materials in electric vehicles

Range anxiety and battery-pack cost keep lightweighting at the center of EV engineering. PP compounds now appear in larger volumes per EV than in comparable internal-combustion cars, largely because lower mass converts directly into added driving range without resizing the battery. Beyond instrument panels and trims, high-dielectric PP and advanced polyamide grades are entering structural housings and high-voltage busbars. Dedicated EV platforms free designers from legacy metal hard-points, allowing more plastic integration into body structures and thermal-management channels.

Carbon-emission penalties accelerating polypropylene bumper adoption

Fleet-average emissions standards in Europe and North America impose significant financial penalties for excess CO?. Automakers therefore target "quick wins" such as switching from metal-reinforced to fully PP bumpers, achieving meaningful mass savings at lower system cost. Industry life-cycle assessments consistently show PP bumpers delivering a smaller carbon footprint than steel or aluminum alternatives once use-phase fuel savings are incorporated.

OEM qualification delays for Bio-PA due to odor & flammability

Bio-sourced polyamides promise lower cradle-to-gate emissions, yet residual odor and inconsistent ignition behavior complicate cabin and under-hood approvals. Academic work on cellulosic-fiber-reinforced Bio-PA confirms wide variability in mechanical properties stemming from fiber dispersion challenges. Industry groups have petitioned regulators to allow longer validation cycles so material suppliers can fine-tune formulations.

Other drivers and restraints analyzed in the detailed report include:

Shift to Modular Front-End Carriers (MECs) via injection-molded hybrids / Growing demand for flexible and cost-efficient design materials / High materials and processing cost /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Polypropylene held a commanding 34.18% automotive plastics market share in 2024 on the back of balanced cost, processability and property retention. Interior fascia, door trims and center consoles dominate PP usage, but glass-fiber-reinforced grades now extend into semi-structural seat carriers and tailgates.

Polyamides are climbing an 8.87% CAGR trajectory through 2030 as high-temperature electrified powertrains demand better thermal and dielectric insulation. PA66 and partially aromatic PA6/6T blends displace metal brackets in battery-cold-plate assemblies, inverter housings and turbo-air ducts. Bio-based PA grades, while not yet mainstream, attract OEMs seeking Scope-3 carbon reductions once odor and flame-spread hurdles are cleared.

Interior accounted for 32.97% of the automotive plastics market size in 2024, buoyed by demand for soft-touch dashboards, ambient-lit door panels, and integrating display clusters into single multi-shot molded units. Haptic coatings and laser-etch graphics depend on specialty PP, ABS, and PC/PMMA blends, reinforcing plastics' role in experiential design.

Under-bonnet components, though smaller in absolute volume, are growing at 8.98% per year. Electrified architectures pack more electronics and require intricate cooling channels; thus, heat-stabilized PA, PPS, and PBT replace die-cast aluminum for e-motor cooling jackets and high-voltage busbar covers.

The Automotive Plastics Market Report Segments the Industry by Material (Polypropylene (PP), Polyurethane (PU), Polyvinyl Chloride (PVC), and More), Application (Exterior, Interior, and More), Vehicle Type (Conventional/Traditional Vehicles, and Electric Vehicles), Source (Virgin Plastic, Recycled Plastic, and More), and Geography (Asia-Pacific, North America, Europe, South America, and Middle East and Africa).

Geography Analysis

Asia-Pacific dominated the automotive plastics market with a 48.25% stake in 2024 and mirrors the highest regional CAGR at 9.82% to 2030. China's large-scale EV rollout, supported by battery-maker alliances and state incentives, is spurring polymer capacity expansions across PP, PA and PBT value chains. India records double-digit growth in passenger-car output, triggering investments in local compounding hubs to curb import reliance. South Korea and Japan refine ultra-high-molecular-weight grades for impact-resistant exterior panels, further embedding a virtuous innovation-capacity loop.

North America presents a mature yet inventive landscape. Compliance with tightening Corporate Average Fuel Economy standards pushes OEMs toward multi-material architectures that maximize plastics in liftgates, battery packs and advanced driver-assistance sensor housings. The United States also hosts pioneering work in closed-loop recycling partnerships between resin suppliers and tier-one molders, supporting local circular-economy targets.

Europe maintains sizeable demand anchored by premium vehicle segments and aggressive regulatory frameworks. The proposed 25% recycled-content threshold in passenger cars catalyzes R&D around compatibilizer additives and de-odorizing systems that elevate post-consumer resin performance. Germany leads technology deployments in fiber-reinforced PA cross-members, while France and the United Kingdom channel public funding toward biopolymer pilot lines. The region nevertheless faces margin pressures from energy-cost volatility, making material efficiency a strategic imperative.

List of Companies Covered in this Report:

Arkema / Asahi Kasei Advance Corporation / BASF SE / Borealis AG / Braskem / Celanese Corporation / Covestro AG / Daicel Corporation / Dow / dsm-firmenich / DuPont / Evonik Industries AG / Exxon Mobil Corporation / INEOS / LANXESS / LG Chem / LyondellBasell Industries Holdings B.V. / Mitsui Chemicals Inc. / SABIC / TEIJIN LIMITED /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
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Table of Contents:

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