

# North America Plastic Electrical Boxes Market Size, Share & Trends Analysis Report By Material (PVC, PC), By Product (Wall-mounted Electrical Boxes, Weatherproof & Outdoor Boxes), By Application, By Country, And Segment Forecasts, 2025 - 2033

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## Abstracts

### North America Plastic Electrical Boxes Market Summary

The North America plastic electrical boxes market size was estimated at USD 6.01 billion in 2024 and is projected to reach USD 10.34 billion by 2033, growing at a CAGR of 6.3% from 2025 to 2033. The industry is driven by the surge in residential electrification, fueled by rising developments of housing units, renovation projects, and smart home adoption.

As homeowners integrate more outlets, switches, lighting, and smart devices, the demand for cost-effective, easy-to-install, and code-compliant electrical enclosures is expected to further boost the product demand. The North American industry for plastic electrical boxes is closely tied to the region's construction cycle, with residential and commercial activity setting the benchmark for sustained growth. As homebuilding surges and nonresidential projects expand, manufacturers find both stable baseline demand and opportunities to differentiate through specialized offerings.

### Drivers, Opportunities & Restraints

The rapid proliferation of smart home and IoT devices across North America is creating unprecedented demand for the underlying infrastructure that makes these systems safe, reliable, and code-compliant. As more homeowners adopt voice-activated lighting, connected security systems and energy-management platforms, the need for

standardized enclosure solutions has surged. These devices require reliable housing that safeguards wiring connections and meets stringent building-code requirements, making plastic electrical boxes an essential component in every installation.

The rapid deployment of smart home technologies and grid modernization programs opens significant growth avenues for plastic electrical box manufacturers. As utilities and contractors outfit homes and commercial buildings with advanced sensors, smart meters, and IoT devices, demand rises for purpose-built enclosures that support low-voltage wiring and embedded connectivity modules.

Retrofit projects in aging housing stock represent a particularly fertile segment, since slim-profile, snap-in boxes can be installed without extensive drywall work. Suppliers that develop catalogue ranges specifically for smart devices and partner with electrical distributors to bundle “smart retrofit kits” stand to capture early-mover advantages.

However, raw material price swings in resin markets create uncertainty that directly erodes manufacturer margins. When oil or natural gas prices spike, the cost of PVC, ABS, and polycarbonate can climb sharply, forcing producers to absorb higher expenses or pass them on to customers. In a market with tight competition, only a portion of these increases can be recouped, compressing profitability and discouraging investment in capacity expansion.

## North America Plastic Electrical Boxes Market Report Segmentation

This report forecasts volume & revenue growth at the regional and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the North America plastic electrical boxes market report based on material, product, application, and country:

Material Outlook (Volume, Million Units; Revenue, USD Million, 2021 - 2033)

Polyvinyl Chloride (PVC)

Polycarbonate (PC)

Acrylonitrile Butadiene Styrene (ABS)

Other Materials

Product Outlook (Volume, Million Units; Revenue, USD Million, 2021 - 2033)

Wall-Mounted Electrical Boxes

Ceiling Boxes / Fan Boxes

Weatherproof & Outdoor Boxes

Other Products

Application Outlook (Volume, Million Units; Revenue, USD Million, 2021 - 2033)

Residential

Commercial

Industrial

Country Outlook (Volume, Million Units; Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

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