North America Plastic Lined Piping Market By Type (PP Lined Pipe, PTFE Lined Pipe, PVDF Lined Pipe, Others), By Application (Water Treatment, Chemical Processing, Food & Beverage, Steel, Power Generation, Others), By Country, By Competition, Forecast and Opportunities 2020-2030F

Market Report | 2025-05-30 | 120 pages | TechSci Research

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Report description:

Market Overview
The North America Plastic Lined Piping Market was valued at USD 21.52 billion in 2024 and is projected to reach USD 32.64 billion by 2030, growing at a CAGR of 7.19% during the forecast period. Plastic lined piping refers to metal pipes internally lined with polymers such as polyethylene, polypropylene, or polyvinyl chloride, offering protection against corrosion, chemical exposure, abrasion, and contamination. These systems extend pipe longevity, ensure fluid purity, and are increasingly utilized across sectors including chemical processing, oil and gas, water treatment, mining, and pharmaceuticals. Rising demand for corrosion-resistant infrastructure, stringent regulatory standards, and the need for reliable fluid handling systems are major growth contributors. Additionally, infrastructure upgrades in water and wastewater systems driven by urban development are expanding the market potential. The oil and gas industry's emphasis on safe, long-distance hydrocarbon transportation further promotes the adoption of lined pipes. Innovations in polymer linings with improved thermal and chemical resistance, along with growing awareness of their operational benefits-such as reduced maintenance and improved flow-are fueling widespread acceptance. The region's strong industrial base and ongoing investment in R&D reinforce a positive outlook for market expansion.
Key Market Drivers
Growing Demand for Corrosion-Resistant Infrastructure in Chemical and Petrochemical Industries
The demand for plastic lined piping systems is growing rapidly in North America's chemical and petrochemical industries due to the need to manage highly corrosive and chemically aggressive environments. Traditional metal piping often deteriorates quickly under such conditions, resulting in frequent replacements and operational interruptions. In contrast, plastic lined systems combine metal strength with superior chemical resistance, significantly improving durability and reducing maintenance costs. This

translates to improved operational uptime and reduced production disruptions. Moreover, increasingly stringent environmental regulations mandate the use of leak-proof, corrosion-resistant infrastructure to prevent contamination and ensure safety. Regulations promoting environmental protection and sustainable industrial operations are prompting companies to upgrade their existing infrastructure with more reliable solutions. As the region's chemical processing capacity expands and modernization initiatives accelerate, plastic lined piping continues to be a critical solution for long-term performance, regulatory compliance, and cost efficiency. Nearly 38% of chemical processing facilities in North America have undertaken corrosion-resistant piping upgrades within the past five years, reflecting the growing importance of this trend.

Key Market Challenges

High Initial Capital Investment and Installation Complexity

The adoption of plastic lined piping systems in North America faces limitations due to high initial investment costs and technical installation requirements. These systems are costlier than traditional pipes, owing to the specialized materials, manufacturing techniques, and quality assurance procedures required to ensure their long-term performance. For small and medium-sized enterprises operating within tight capital budgets, the high upfront cost often discourages adoption despite long-term operational benefits. Installation adds another layer of complexity, as it demands careful handling to prevent lining damage, along with skilled labor to execute controlled welding and ensure proper inspection. This challenge is particularly prominent in retrofit applications, where pipeline integration must consider existing infrastructure and space constraints. The requirement for specialized training and stringent installation protocols increases project costs and risks, deterring many potential users. These factors collectively constrain faster market penetration, especially in cost-sensitive industries or projects with limited timelines.

Key Market Trends

Increasing Adoption of Advanced Polymer Linings for Enhanced Performance

A key trend shaping the North America plastic lined piping market is the rising adoption of high-performance polymer linings. Beyond conventional materials like polyethylene and polypropylene, industries are now incorporating advanced polymers such as fluoropolymers, which offer exceptional resistance to aggressive chemicals and elevated temperatures. These enhanced linings significantly expand the applicability of plastic lined pipes in industries like specialty chemicals and pharmaceuticals. Manufacturers are investing in R&D to develop linings with better adhesion to metal surfaces, improved thermal properties, and lower risk of delamination, increasing reliability and service life. This innovation aligns with industrial demands for high-efficiency, low-maintenance, and safety-compliant piping systems. Customized solutions tailored to specific process requirements are gaining traction, enabling broader usage across complex industrial applications and reinforcing the trend towards specialized, high-performance piping infrastructure.

Key Market Players

- PPG Industries, Inc.
- AGRU Kunststofftechnik GmbH
- Simtech Process Systems
- CRANE ChemPharma & Energy
- Dynaflex Pipe Technologies
- Corrosion Resistant Products (CRP)
- Ethylene LLC
- Baum Kunststoffe GmbH

Report Scope:

In this report, the North America Plastic Lined Piping Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- North America Plastic Lined Piping Market, By Type:

o PP Lined Pipe
o PTFE Lined Pipe
o PVDF Lined Pipe
o Others

- North America Plastic Lined Piping Market, By Application:

o Water Treatment
o Chemical Processing
o Food & Beverage
o Steel
o Power Generation
o Others
- North America Plastic Lined Piping Market, By Country:
o United States
o Canada
o Mexico
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the North America Plastic Lined Piping Market.
Available Customizations:
North America Plastic Lined Piping Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
- Detailed analysis and profiling of additional market players (up to five).

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