

China Plastic Pipes Market By Type (Polyvinyl Chloride Pipes, Polyethylene Pipes, Polypropylene Pipes), By End Use (Residential, Commercial, Industrial, Infrastructure), By Diameter (<50mm, 50-100mm, 100-200mm, 200-400mm, 400-700mm, >700mm), By Region, Competition, Forecast and Opportunities, 2020-2030F

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Report description:

Market Overview

China Plastic Pipes Market was valued at USD 16.21 Billion in 2024 and is expected to reach USD 21.03 Billion by 2030 with a CAGR of 4.28% during the forecast period.

The China Plastic Pipes Market is witnessing sustained growth, driven by rapid urbanization, ongoing infrastructure expansion, and strong government emphasis on environmental sustainability. As the country continues to modernize its urban and rural landscapes, plastic pipes have become a preferred choice due to their cost-effectiveness, lightweight nature, resistance to corrosion, and ease of installation compared to traditional materials like steel and concrete. Widely used in water supply, sewage management, gas distribution, agriculture, and industrial applications, plastic pipes are an integral component of China's broader construction and infrastructure framework.

Government initiatives such as the "Beautiful Countryside" campaign and "Sponge City" program have significantly influenced market demand by focusing on efficient water resource management, flood control, and green urban infrastructure. These programs require large-scale adoption of high-quality piping solutions, leading to increased investment in plastic pipe manufacturing and innovations. Additionally, the ongoing replacement of outdated pipe networks in aging cities and industries further accelerates market growth.

China's plastic pipe manufacturers are increasingly focused on technology integration and product diversification. High-density polyethylene (HDPE), chlorinated polyvinyl chloride (CPVC), and cross-linked polyethylene (PEX) pipes are seeing growing

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adoption due to their enhanced durability, heat resistance, and pressure handling capabilities. The construction of smart cities and modern housing developments has also fueled the demand for efficient piping systems for hot and cold water supply, HVAC systems, and fire protection networks.

Environmental regulations and circular economy policies are pushing the market towards sustainable manufacturing practices, including the use of recycled plastics and innovations that enhance pipe lifespan and recyclability. Export potential is also increasing, particularly in developing regions that seek affordable and long-lasting piping systems.

Despite a maturing domestic market, growth remains promising, especially in Tier 2 and Tier 3 cities undergoing rapid transformation. Local players continue to strengthen their regional distribution networks, while international collaborations bring advanced technology and expertise into the market. Overall, the China Plastic Pipes Market stands at a dynamic intersection of policy support, technological advancement, and urban growth, making it a key segment within the nation's broader industrial and environmental development agenda.

Key Market Drivers

Rapid Urbanization and Real Estate Development

China's urbanization rate exceeded 66% in 2023, with over 920 million people living in urban areas. As urban centers expand, there is growing demand for water supply, drainage, gas distribution, and telecommunication infrastructure—all of which require efficient piping systems. Plastic pipes are lightweight, corrosion-resistant, and economical, making them ideal for large-scale urban projects. With ongoing initiatives such as the construction of over 6 million affordable housing units between 2024 and 2026, the need for water and sewage piping solutions is accelerating.

The use of plastic pipes in housing infrastructure—especially for plumbing, drainage, and underfloor heating systems—is significantly increasing. PVC and HDPE pipes, in particular, are being rapidly deployed in mid-rise and high-rise residential buildings due to their flexibility and resistance to scale and biofilm buildup. Government-backed developments like the "Urban Renewal Plan," which aims to renovate old residential communities in more than 200 cities by 2025, also contribute to rising demand.

Municipal water supply and drainage systems in newly urbanized areas require thousands of kilometers of piping annually. For example, in the Yangtze River Delta and Greater Bay Area, new real estate developments are estimated to require over 180,000 km of water and wastewater pipelines from 2024 to 2030. This scale drives constant procurement and upgrading of plastic piping systems.

The seamless integration of plastic pipes with modern construction methods, such as prefabricated building components, further increases their demand. Developers and construction firms are prioritizing plastic over metal due to its long-term cost efficiency and reduced maintenance requirements. As China continues to urbanize and build smart cities, plastic pipes are set to play a central role in supporting water infrastructure.

Key Market Challenges

Intense Price Competition and Margin Pressure

The China plastic pipes market is highly fragmented, with a mix of large national manufacturers and numerous regional players. This overcrowding creates intense price competition, particularly in commodity segments like PVC and HDPE pipes. While top players like China Lesso and Yonggao Co., Ltd. maintain premium positions, mid- and small-sized enterprises are often forced into price wars to secure municipal and construction contracts.

With raw material prices fluctuating—especially PVC resin, which saw a 20% price spike in mid-2023—smaller players struggle to maintain profitability. They are unable to pass costs to end-users due to contract constraints and fierce bidding competition. This results in shrinking profit margins, particularly in government projects, which are awarded based on the lowest bid.

Moreover, government tendering policies often favor the lowest cost per meter rather than total lifecycle performance, discouraging innovation and quality upgrades. In such an environment, players investing in high-performance or specialized plastic pipes (such as multilayer or composite pipes) find it difficult to compete on price alone, limiting their market reach.

The high cost of distribution and warehousing across provinces further compresses margins. Distributors often demand significant discounts, especially in rural or Tier 3 and 4 cities, where infrastructure budgets are tight. The added logistics burden makes it harder for premium producers to compete outside urban centers.

Key Market Trends

Government-Led Infrastructure Projects Fueling Pipe Installations

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China's continued focus on infrastructure expansion remains a primary growth engine for the plastic pipes market. Driven by the 14th Five-Year Plan (2021-2025), which emphasizes "new infrastructure," urban renewal, and rural revitalization, the demand for plastic pipes in applications like urban drainage, water supply, sewage, and telecommunication conduits is on the rise. The government has allocated more than RMB 2 trillion for water conservancy projects alone over the current plan period. These projects, including the South-North Water Transfer Project, urban flood control systems, and sponge city initiatives, require miles of underground piping-most of which is fulfilled by plastic materials due to their corrosion resistance and light weight. In rural areas, plastic pipes are vital to achieving universal access to safe drinking water and modernizing irrigation systems. The Ministry of Water Resources reported in 2023 that more than 1.3 million kilometers of rural water pipelines were upgraded between 2021 and 2023-more than 80% of which used plastic piping. Urban renewal programs, including redevelopment of aging residential neighborhoods, also mandate replacement of old steel and asbestos-cement piping networks with modern plastic alternatives. Additionally, initiatives like "dual circulation" (boosting domestic demand) and smart city development fuel the use of plastic conduits for power, fiber optics, and gas distribution. These state-led infrastructure efforts create steady, long-term demand for a wide range of plastic piping systems, from HDPE for sewage to PPR for drinking water. While the bidding processes remain competitive, they offer high-volume, multi-year contracts that favor manufacturers with scale, technical certifications, and supply chain readiness.

Key Market Players

- China Lesso Group Holdings Ltd
- Huawei Water Saving Irrigation Corp
- Zhejiang Weixing New Building Materials Co., Ltd.
- Yonggao Co., Ltd.
- Chinaust Group
- Ginde Plastic Pipe Industry Group
- Goody Technology Co., Ltd.
- Shandong Huaxin Plastic Pipe Co., Ltd.
- Zhejiang Aobo Pipe Industry Technology Co., Ltd
- Kunshan Duraflow Industry Co., Ltd

Report Scope:

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

□□China Plastic Pipes Market, By Type:

- o Polyvinyl Chloride Pipes
- o Polyethylene Pipes
- o Polypropylene Pipes

□□China Plastic Pipes Market, By End Use:

- o Residential
- o Commercial
- o Industrial
- o Infrastructure

□□China Plastic Pipes Market, By Diameter:

- o <50mm
- o 50-100mm
- o 100-200mm
- o 200-400mm
- o 400-700mm
- o >700mm

□□China Plastic Pipes Market, By Region:

- o North China

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- o Northeast China
- o East China
- o South China
- o Southwest China
- o Northwest China

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the China Plastic Pipes Market.

Available Customizations:

China Plastic Pipes 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).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. Voice of Customer
5. China Plastic Pipes Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Type (Polyvinyl Chloride Pipes, Polyethylene Pipes, Polypropylene Pipes)
 - 5.2.2. By End Use (Residential, Commercial, Industrial, Infrastructure)
 - 5.2.3. By Diameter (<50mm, 50-100mm, 100-200mm, 200-400mm, 400-700mm, >700mm)
 - 5.2.4. By Region (North China, Northeast China, East China, South China, Southwest China, and Northwest China)
 - 5.3. By Company (2024)
 - 5.4. Market Map
6. North China Plastic Pipes Market Outlook

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- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By End Use
 - 6.2.3. By Diameter
- 7. Northeast China Plastic Pipes Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By End Use
 - 7.2.3. By Diameter
- 8. East China Plastic Pipes Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By End Use
 - 8.2.3. By Diameter
- 9. South China Plastic Pipes Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By End Use
 - 9.2.3. By Diameter
- 10. Southwest China Plastic Pipes Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By End Use
 - 10.2.3. By Diameter
- 11. Northwest China Plastic Pipes Market Outlook
 - 11.1. Market Size & Forecast
 - 11.1.1. By Value
 - 11.2. Market Share & Forecast
 - 11.2.1. By Type
 - 11.2.2. By End Use
 - 11.2.3. By Diameter
- 12. Market Dynamics
 - 12.1. Drivers
 - 12.2. Challenges
- 13. Market Trends and Developments
 - 13.1. Merger & Acquisition (If Any)
 - 13.2. Product Launches (If Any)

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- 13.3. Recent Developments
- 14. Company Profiles
 - 14.1. China Lesso Group Holdings Ltd
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel
 - 14.1.5. Key Product/Services Offered
 - 14.2. Huawei Water Saving Irrigation Corp
 - 14.3. Zhejiang Weixing New Building Materials Co., Ltd.
 - 14.4. Yonggao Co., Ltd.
 - 14.5. Chinaust Group
 - 14.6. Ginde Plastic Pipe Industry Group
 - 14.7. Goody Technology Co., Ltd.
 - 14.8. Shandong Huaxin Plastic Pipe Co., Ltd.
 - 14.9. Zhejiang Aobo Pipe Industry Technology Co., Ltd
 - 14.10. Kunshan Duraflow Industry Co., Ltd
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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