

Plastic Pipes Market Assessment, By Product Type [PVC Pipes, CPVC Pipes, HDPE Pipes, Others], By Demand Type [New, Replacement], By Application [Agriculture and Irrigation, Plumbing, Sewerage and Drainage, and Others], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global plastic pipes market is projected to witness a CAGR of 5.12% during the forecast period 2025-2032, growing from USD 46.78 billion in 2024 to USD 69.75 billion in 2032F, propelled by increasing infrastructure development, urbanization, and expanding agricultural activities worldwide. Rising demand for efficient water supply, sewage, and irrigation systems is driving the adoption of durable, corrosion-resistant plastic pipes over traditional materials. Additionally, the government initiatives focused on water conservation, sanitation, and sustainable infrastructure further support market expansion. Furthermore, the technological advancements in materials like polyethylene and PVC enhance pipe performance, making them suitable for diverse applications plumbing, sewerage and drainage across construction, industrial, and oil and gas sectors.

In March 2025, Supreme Industries signed a Memorandum of Intent to acquire Wavin Industries Limited's piping business for USD 30 million plus net-working capital. The acquisition includes Wavin India's manufacturing units, assets, intellectual property rights, contracts, and employees. The deal is expected to be completed by June 30, 2025, pending due diligence and regulatory approvals. Through this acquisition, Supreme Industries is anticipated to increase its piping division capacity by 73,000 metric tons annually and gain exclusive access to Wavin B.V.'s existing technologies for water supply, sanitation, and building performance products for India and SAARC countries for seven years.

Growing Demand for Sprinkling Systems in Both Residential and Commercial Sectors

Rapid urbanization and Infrastructure development have led to increased installation of irrigation and fire sprinkler systems in new buildings, creating a substantial need for durable and efficient piping solutions. Stringent fire safety regulations in many regions mandate the use of automatic fire sprinkler systems, which rely heavily on extensive pipe networks. Plastic pipes are widely used in such applications due to the fact that they resist corrosion, are light in weight, and are easier to install, cutting down on labor

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costs and project duration. Further, the move toward efficient irrigation and water management, particularly in agriculture and landscaping, has hastened the shift towards the use of sprinkling systems that use plastic pipes due to them being affordable and versatile. Plastic pipes also benefit from the incorporation of technologies such as the use of IoT and intelligent controls in sprinkling systems, as they allow them the versatility and longevity needed for such new-age systems.

In August 2024, Aliaxis SA, a world leader enabling access to water and energy through innovative fluid management solutions, agreed to acquire the manufacturing assets of Johnson Controls' CPVC pipe and fittings business for residential and light commercial sprinkler systems. The acquisition will expand Aliaxis' presence in the Southern United States and strengthen its product range in fire suppression systems for residential and light commercial applications. The deal was subject to customary closing conditions and expected to be completed within the next couple of weeks since the time of announcement.

Rising Demand for PVC Pipes in Plumbing and Water Irrigation

Growing demand in plumbing and water irrigation applications for PVC piping is being spurred by urbanization, development of new infrastructures, and the requirements of efficient and affordable piping solutions. PVC piping is extensively preferred for its toughness, resistance to corrosion, and light weight, and it finds widespread application in residential and commercial plumbing, and in major irrigation projects. Governmental investments in water management and modernization of agriculture in developing countries continue to fuel adoption. Low maintenance and replacement costs and long lifespan of PVC piping lower operational costs, while the ease of installation enables quick project turnaround. Flexibility and chemical resistance have also improved with development in the formulation of PVC, and it finds wider applications in varied environments. With the continued urbanization of cities and focus on water-conserving water infrastructure worldwide, the demand for PVC piping will remain high for plumbing and irrigation applications globally.

In May 2023, top cast iron and plastic pipe and fittings manufacturer Charlotte Pipe and Foundry Company announced to establish a USD 80 million manufacturing operation in Maize, Kansas. The investment will generate 50 full-time jobs, and the facility will be the company's seventh in the United States. The 134,000-square-foot facility will be situated near the Kansas & Oklahoma Railroad for quick production of PVC pipes for plumbing and irrigation purposes.

Rising Demand for PVCO Pipes

PVC-O piping is increasingly being adopted due to higher mechanical characteristics, such as high strength, long lasting nature, and resistance to corrosion, to be suitable for water supply, wastewater treatment, and irrigation network projects. It has the advantage of being light in weight, and hence transport and installation become easier and inexpensive, lowering labor and total project costs, especially for massive municipal and agricultural-scale applications. One of the benefits of PVC-O piping is high hydraulic qualities, and it boasts very little water loss and efficient distribution of water, a critical benefit in the wake of water scarcity concerns and the necessity of efficient and green water management systems. The transition to green and eco-friendly material also aids the use of PVC-O piping, as it consumes less resources and also has a lower carbon footprint when compared to conventional piping materials.

In May 2024, Westlake Pipe & Fittings revealed plans to construct a new polyvinyl chloride (PVCO) molecular-oriented pipe manufacturing facility in Wichita Falls, Texas. The addition will bring a 190,000 square-foot building to the complex, taking advantage of the region's location. Westlake's product offerings will be bolstered by the addition of manufacturing of PVCO pipe, a high-end molecular-oriented PVC pipe that was brought to Canada in 2021.

The Asia-Pacific Region Dominate the Global Plastic Pipes Market

Rapid urbanization, industrialization, large-scale infrastructure development, and massive agriculture sector across countries such as China, India, and Japan driving the plastic pipe market in the Asia-Pacific region with the robust growth. The region's booming construction sector, extensive government investments in water supply, sanitation, and irrigation projects, and the need to upgrade aging infrastructure are major growth drivers. Additionally, the plastic pipes are increasingly favored due to their cost-effectiveness, corrosion resistance, lightweight nature, and ease of installation, making them ideal for diverse applications in water management, plumbing, agriculture, and industrial sectors. Additionally, sustainability initiatives and the adoption of eco-friendly construction materials further boost demand, while ongoing smart city and urbanization projects ensure continued market expansion in Asia Pacific.

In October 2024, Wavin, a Dutch plastic pipe manufacturing company, invested USD 52.6 million in Indonesia to establish its first production facility in the Southeast Asia Region. The facility will produce plastic pipes for various applications, including tap water,

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surface heating, cooling, ground and waste, rainwater, drinking water, gas distribution, and telecommunications. Wavin is equipped with the latest production technology to channel drinking water.

Future Market Scenario (2025 - 2032F)

- Growing infrastructure development and urbanization worldwide are increasing demand for plastic pipes in water supply, sewage, and drainage systems.
- Expansion of agricultural activities and adoption of advanced irrigation techniques are driving the need for durable and efficient plastic piping solutions.
- Government subsidies and initiatives promoting water conservation and sanitation improvements are boosting plastic pipe usage.
- Replacement of traditional materials like metal and concrete with eco-friendly, corrosion-resistant plastic pipes is accelerating market growth.
- Rising investments in oil and gas exploration and transportation are increasing demand for specialized plastic pipes.

Key Players Landscape and Outlook

The prominent players in the global plastic pipe market are focusing on capacity expansions, technological advancements, and product diversification to meet the growing demand across construction, agriculture, and industrial sectors. They are investing in innovative materials such as chlorinated polyvinyl chloride (cPVC) and cross-linked polyethylene (PEX) to enhance durability, flexibility, and environmental performance. Strategic collaborations with infrastructure developers and governments are helping to secure large-scale projects for water supply, sewage systems, and irrigation. Additionally, players are adopting sustainable manufacturing practices to align with global environmental regulations and consumer preferences for eco-friendly products. Regional expansion strategies, particularly in Asia-Pacific and North America, are further strengthening their market presence and enabling them to cater to diverse applications more effectively.

In March 2025, Belgium-based fluid management firm Aliaxis announced its plans to invest over USD 64 million in India over the next two years, focusing on greenfield and brownfield projects to increase its capacity by nearly 30%. The company plans to set up two new greenfield manufacturing facilities in Hyderabad and Chennai, increasing production capacity from 3 lakh tonnes to 4 lakh tonnes per annum.

In March 2024, JM Eagle Co., Inc announced the construction of a USD 9 million five-level addition at the plant located in southwest edge of the community at 1314 W. 3rd Street. The expansion is part of the company's efforts to produce environmentally friendly plastic pipes for water and sewer systems. This expansion was the first phase of the construction completed in January 2025.

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