

PVC Pipes Market Report by Application (Irrigation, Water Supply, Sewerage, Plumbing, HVAC, Oil and Gas), and Region 2024-2032

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Abstracts

The global PVC pipes market size reached 24.9 Million Tons in 2023. Looking forward, IMARC Group expects the market to reach 35.7 Million Tons by 2032, exhibiting a growth rate (CAGR) of 4% during 2024-2032. The rapid infrastructure development activities, rising consumer awareness towards product durability and longevity, growing product adoption due to its cost-effectiveness, rising product utilization in the agriculture industry, and the recent technological advancements in formulations and manufacturing techniques are some of the major factors propelling the market.

PVC pipes refer to tubular products made from polyvinyl chloride, a synthetic resin composed of polymerized vinyl chloride (PVC) monomers. They are primarily produced using polymerization and extrusion process. PVC pipes are widely used in drinking water systems, sewerage, irrigation, underground wiring, chemical transportation, fire sprinklers, and heating and cooling systems. They are cost-effective, durable, and lightweight products that are easy to install, require low maintenance, offer long service life, and provide resistance against corrosion. PVC pipes also offer several advantages, such as flexibility, high tensile strength, and low thermal conductivity.

The rising product utilization in the agriculture industry to ensure efficient water distribution without contamination and maximize crop yield is propelling the market growth. Additionally, the recent technological advancements in formulations and manufacturing techniques to produce more resilient, compatible, and durable products are contributing to the market growth. Furthermore, the rapid expansion of the housing and real estate sectors is facilitating product demand for plumbing, waste disposal, and other applications. Apart from this, the implementation of supportive policies by several governments across the globe endorsing the use of PVC pipes as an environmentally

and economically beneficial material is positively influencing the market growth. Other factors, including increasing product application in water conservation efforts, extensive research and development (R&D) activities, and growing consumer awareness regarding various benefits of PVC pipes, are anticipated to drive the market growth.

PVC Pipes Market Trends/Drivers:

The rapid infrastructural development activities

The rapid pace of urbanization and development in emerging economies is facilitating the need for a robust infrastructure to support the growing populations and businesses. This infrastructure goes beyond visible constructions, such as buildings and roads, but it encompasses essential utilities such as water supply, sewage systems, electrical conduits, and drainage systems. In line with this, PVC pipes are becoming the material of choice for many of these applications, owing to their durability, high strength, and ease of installation. Moreover, as governments allocate significant portions of their budgets towards infrastructure projects, the demand for reliable and cost-effective materials, such as PVC, grows. Furthermore, the increasing financial incentives by The World Bank and other international organizations supporting infrastructure projects in developing countries are further bolstering the market growth.

The rising consumer awareness towards product durability and longevity

One of the most commendable attributes of PVC pipes is their durability. As compared to traditional materials, PVC is resistant to corrosion, which is an essential factor when considering the longevity of underground installations. Furthermore, the wear and tear from fluctuating water pressures, changing soil compositions, and external environmental factors can significantly affect a pipe's lifespan. In line with this, PVC pipes demonstrate excellent resilience against these challenges as they are non-reactive in nature, which eliminates the risk of chemical deterioration, typically found underground. Moreover, as municipalities and businesses seek long-term solutions to reduce maintenance costs and ensure uninterrupted service, the demand for PVC pipes escalates. Apart from this, they promote sustainability by not only reducing replacement and labor costs but also minimizing environmental impact.

The growing product adoption due to its cost-effectiveness

PVC pipes offer a distinct advantage in terms of cost-effectiveness when compared to other materials, such as copper or iron. These pipes are cost-effective, owing to their

lightweight nature. Furthermore, their ease of installation also assists in reducing labor costs and reducing project completion times. Apart from this, their longevity ensures that the long-term costs arising from repairs, replacements, and maintenance are minimized. For developing economies and budget-constrained projects, these cost savings can make a substantial difference, allowing for resources to be allocated elsewhere. As a result, decision-makers and planners are increasingly leaning towards PVC as a pragmatic and economical choice for their piping needs.

PVC Pipes Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global pvc pipes market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on application.

Breakup by Application:

- Irrigation
- Water Supply
- Sewerage
- Plumbing
- HVAC
- Oil and Gas

Irrigation dominates the market

The report has provided a detailed breakup and analysis of the market based on the application. This includes irrigation, water supply, sewerage, plumbing, HVAC, and oil and gas. According to the report, irrigation represented the largest market segment.

Irrigation is dominating the market owing to the escalating need for food production across the globe. It plays a crucial role in enhancing agricultural productivity, especially in regions that experience irregular rainfall or prolonged dry seasons. Furthermore, PVC pipes are resistant to corrosion, ensuring they don't deteriorate even when exposed to various chemicals commonly used in agriculture, such as fertilizers and pesticides. This resistance ensures water delivery without contamination, thus safeguarding crop health. Apart from this, large-scale irrigation projects require extensive piping networks. PVC pipes, being economically viable compared to many alternatives, make them a preferred choice for such expansive undertakings. Moreover, their durable nature ensures minimal water wastage through leakages, which aids in enhancing irrigation efficiency.

Breakup by Region:

Asia

North America

Europe

Middle East and Africa

Latin America

Asia exhibits a clear dominance in the market, accounting for the largest PVC pipes market share

The report has also provided a comprehensive analysis of all the major regional markets, which includes Asia, North America, Europe, Middle East and Africa, and Latin America. According to the report, Asia represented the largest market segment.

Asia is experiencing an accelerated pace of urbanization, which necessitates new infrastructure, from water supply to sewage systems, thus driving the demand for PVC pipes. Additionally, several regional governments are investing heavily in infrastructure projects, both in urban and rural settings, which involve extensive infrastructural development where PVC pipes play a pivotal role. Apart from this, the presence of an enormous agrarian society in Asia is facilitating product demand to ensure maximum agricultural output. Apart from this, the increasing demand for PVC pipes for plumbing and sewage systems in Asia due to the rapid expansion of the housing sector is contributing to the market growth. Moreover, the widespread availability of raw materials in the region, which supports local production and reduces import dependence, is boosting the market growth.

Competitive Landscape:

Leading companies in the market are producing PVC pipes with enhanced properties, such as improved durability, ultraviolet (UV) resistance, or increased flexibility. Furthermore, many top companies are expanding their production facilities by expanding existing plants or establishing new ones in strategic locations. Apart from this, the escalating environmental concerns have prompted leading companies to focus on sustainable manufacturing processes, reducing waste, and increasing the recyclability of their products. Additionally, several key players are offering a wide range of customized PVC pipes suitable for different applications, such as irrigation, residential plumbing, and industrial uses. Moreover, they are building partnerships with local distributors, collaborating with tech companies for advanced manufacturing techniques, and forming alliances with research institutions to expand market reach and improve product quality.

The report has provided a comprehensive analysis of the competitive landscape in the global PVC pipes market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

China Lesso Group Holdings Limited

Fujian Aton Advanced Materials Science & Technology Co Ltd.

Hebei Bosoar Pipe Co. Ltd.

Pipelife Austria Gmbh & Co KG

PI?sticos Ferro S.L.

Recent Developments:

In August 2022, China Lesso Group Holdings Limited launched its extrusion workshop in Indonesia to accelerate its expansion in the Southeast Asian market. Under the workshop, several products are manufactured, including PVC pipes, PVC conduits, and PE water supply pipes.

In July 2022, Pipelife Austria Gmbh & Co KG collaborated with raw material supplier Inovyn to produce 100% fossil-free PVC sewage pipes for a construction project in Gothenburg, Sweden.

Key Questions Answered in This Report

1. What was the size of the global PVC pipes market in 2023?
2. What is the expected growth rate of the global PVC pipes market during 2024-2032?
3. What are the key factors driving the global PVC pipes market?
4. What has been the impact of COVID-19 on the global PVC pipes market?
5. What is the breakup of the global PVC pipes market based on the application?
6. What are the key regions in the global PVC pipes market?
7. Who are the key players/companies in the global PVC pipes market?

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