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Plastic Pipes Market – Global Industry Size, Share, Trends, Opportunity, and ForecastSegmented by Type (Polyvinyl Chloride Pipes, Polyethylene Pipes, Polypropylene Pipes), End Use (Residential, Commercial, Industrial, Infrastructure), By Diameter (700mm), By Region, Competition 2018-2028

https://marketpublishers.com/r/P1B27DE422FFEN.html
Date: November 2023
Pages: 190
Price: US$ 4,900.00 (Single User License)
ID: P1B27DE422FFEN

Abstracts

Global Plastic Pipes Market was valued at USD 26.58 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.5% through 2028. New construction plays a crucial role in driving the growth of the plastic pipes market globally. As the construction industry expands, there is an increasing demand for reliable and efficient infrastructure systems, such as water supply, drainage, heating, and cooling. Plastic pipes offer a range of benefits that align with the needs of new construction projects, making them a preferred choice for builders, contractors, and developers.

Key Market Drivers

Growing Number of New Construction Projects

New construction projects, whether residential, commercial, or industrial, require robust and efficient infrastructure systems. Plastic pipes are integral components of these systems, serving as conduits for water, gas, and other fluids. The demand for plastic pipes arises from the need to establish modern and reliable utility networks that cater to the demands of growing populations and urban areas. Infrastructure development is a cornerstone of economic growth and social progress, and it plays a critical role in shaping the Global plastic pipes market. The interplay between infrastructure

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development and the plastic pipes market highlights how the demand for reliable utility networks drives innovation, investment, and growth in the industry. Here's an explanation of how infrastructure development influences the Global plastic pipes market: As cities and populations grow, there is an increasing need for modern and efficient infrastructure systems. Infrastructure development encompasses a range of sectors, including water supply, sanitation, energy distribution, transportation, and more. Plastic pipes serve as the conduits for these essential services, meeting the demand for reliable utility networks in new and expanding communities. One of the fundamental aspects of infrastructure development is ensuring access to clean and safe water. Plastic pipes, such as PVC, PEX, and HDPE pipes, are used extensively in water supply and distribution systems. As infrastructure projects expand water distribution networks, the demand for plastic pipes that can efficiently transport water from sources to consumers grows as well. Efficient sewage and drainage systems are crucial for public health and environmental protection. Infrastructure development projects involve the establishment or expansion of wastewater treatment facilities and drainage networks. Plastic pipes, with their corrosion resistance and smooth interiors, play a vital role in transporting wastewater and stormwater, preventing blockages and ensuring proper disposal. Infrastructure development also encompasses the expansion of natural gas distribution networks. Plastic pipes, particularly polyethylene (PE) pipes, are used for gas distribution due to their resistance to corrosion and ease of installation. As new communities and buildings require access to natural gas, the demand for plastic pipes in gas distribution systems increases. Modern infrastructure projects prioritize energy efficiency and sustainability. This includes the use of energy-efficient technologies like geothermal systems, radiant heating, and cooling. Plastic pipes, such as PEX pipes, are integral to these systems, contributing to reduced energy consumption and environmental impact.

Infrastructure projects must adhere to building codes and regulations to ensure safety and quality. Plastic pipes that meet industry standards and codes play a role in ensuring regulatory compliance in utility systems. This drives the demand for pipes that offer the required performance characteristics and durability. As cities evolve into smart cities, infrastructure development includes the integration of advanced technologies for efficient resource management. Plastic pipes with sensors and smart capabilities can monitor water flow, detect leaks, and enhance overall system management. As a result infrastructure development is a catalyst for the Global plastic pipes market. The demand for reliable utility networks in water supply, sanitation, energy distribution, and more fuels the need for plastic pipes that can efficiently and durably transport fluids. As the nation invests in modernizing and expanding its infrastructure, the plastic pipes market responds by providing innovative solutions that contribute to functional, sustainable, and

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resilient built environments.

Key Market Challenges

Environmental Concerns and Sustainability

The plastic industry is under scrutiny due to environmental concerns associated with plastic waste and microplastics. The challenge for the plastic pipes market is to address these concerns by developing more sustainable products, including using recycled materials and biodegradable plastics. Striking a balance between plastic's benefits and its environmental impact is essential. One of the primary environmental concerns associated with plastic pipes is the potential for plastic waste and pollution. Plastic waste, if not properly managed, can end up in landfills, oceans, and other ecosystems, causing harm to wildlife and the environment. The plastic pipes industry must find ways to minimize plastic waste throughout the lifecycle of their products. Over time, plastics can degrade into smaller particles known as microplastics. These particles can enter water bodies and food chains, posing risks to both aquatic ecosystems and human health. The challenge for the plastic pipes market is to develop pipes that are less prone to generating microplastics and to manage the potential release of microplastics during installation, maintenance, and replacement. To address environmental concerns, plastic pipes manufacturers are exploring more sustainable material options, such as using recycled plastics and biodegradable materials. Incorporating these materials into pipe production can help reduce the reliance on virgin plastics and extend the lifespan of plastic waste. The concept of the circular economy encourages the reduction, reuse, recycling, and responsible disposal of materials. The plastic pipes industry can align with this principle by designing pipes for easy disassembly and recycling, promoting the use of recycled materials, and exploring end-of-life solutions that minimize environmental impact. Sustainability also encompasses energy efficiency and reducing the carbon footprint of products. Manufacturers are challenged to optimize their production processes to minimize energy consumption and greenhouse gas emissions, contributing to a more sustainable overall lifecycle. Managing the end-of-life of plastic pipes is critical. Developing strategies for proper disposal, recycling, or repurposing of used plastic pipes can minimize their impact on the environment. Implementing efficient recycling systems and collaborating with waste management industries are crucial steps.

Key Market Trends

Environmental Concerns and Sustainability

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Segmental Insights

End user Insights

The residential sector is a significant and dynamic segment within the Global plastic pipes market. Plastic pipes play a vital role in providing essential services such as water supply, drainage, heating, and gas distribution in residential buildings. The versatility, durability, and cost-effectiveness of plastic pipes make them a preferred choice for both

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new construction projects and renovations. Let's delve deeper into the role and trends of plastic pipes in the residential sector of China: Plastic pipes, particularly PVC and PPR pipes, are widely used in residential plumbing systems. These pipes offer advantages such as corrosion resistance, easy installation, and reduced maintenance. As many countries experiences urbanization and population growth, the demand for efficient water supply systems in residential areas has surged. Plastic pipes contribute to reliable water distribution, ensuring households have access to clean and safe water.

Type Insights

As 2022, PVC (Polyvinyl Chloride) pipes have been a dominating type in the Global plastic Pipes market. PVC pipes are widely used in various applications, including water supply, drainage, sewage systems, and electrical conduit systems. Their versatility, affordability, and corrosion resistance have contributed to their widespread adoption in both residential and commercial construction projects.

Regional Insights

The Asia Pacific region has established itself as the leader in the Global Plastic Pipes Market with a significant revenue share in 2022. Asia-Pacific is expected to be the largest market for Plastic (PVC) Pipes during the forecast period due to the increasing demand for improved infrastructure in developing countries such as India and China. North America and Europe are also expected to witness significant growth during the forecast period due to the increasing adoption of Plastic (PVC) Pipes in the oil and gas industry.

Key Market Players

JM Eagle

North American Pipe Corporation.

Charlotte Pipe and Foundry.

Uponor

Wavin USA

ISCO Industries

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Dura Line

Prinsco

Report Scope:

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

Global Plastic Pipes Market, By Type:

Polyvinyl Chloride Pipes

Polyethylene Pipes

Polypropylene Pipes

Global Plastic Pipes Market, By End User:

Residential

Commercial

Industrial

Infrastructure

Global Plastic Pipes Market, By Diameter:

50mm

50-100mm

100-200mm

200-400mm

400-700mm

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>700mm

Global Plastic Pipes Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

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Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

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

Available Customizations:

Global Plastic Pipes Market report with the given market data, Tech Sci 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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