

Thermoplastic Pipe Market Outlook 2025-2034: Market Share, and Growth Analysis By Product Type (Reinforced Thermoplastic Pipes (RTP), Thermoplastic Composite Pipes (TCP)), By Polymer Type (Polyethylene (PE), Polypropylene (PP), Polyvinylidene Fluoride (PVDF), Polyvinyl Chloride (PVC), Other Polymer Types), By Application, By End-User

<https://marketpublishers.com/r/T84CF8A92A06EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: T84CF8A92A06EN

Abstracts

The Thermoplastic Pipe Market is valued at USD 4.1 billion in 2025 and is projected to grow at a CAGR of 6.9% to reach USD 7.5 billion by 2034. Thermoplastic Pipe Market has emerged as a transformative force in fluid transportation systems, offering a lightweight, corrosion-resistant, and highly durable alternative to traditional metal piping. Thermoplastic pipes are extensively used across oil & gas, water distribution, chemical processing, mining, and municipal infrastructure due to their cost efficiency, easy installation, and chemical inertness. Key materials include polyethylene (PE), polypropylene (PP), polyvinyl chloride (PVC), and polyamide (PA), each selected for its specific performance characteristics such as pressure rating, temperature resistance, and flexibility. As infrastructure modernization and environmental concerns rise globally, thermoplastic piping systems are gaining favor for their long service life, leak-proof performance, and lower maintenance costs. Additionally, their compatibility with trenchless technologies has enhanced their appeal for urban utility projects and remote installations. Thermoplastic pipe market experienced strong growth driven by heightened investments in oil & gas exploration, water conservation projects, and renewable energy infrastructure. Offshore oil fields increasingly used reinforced thermoplastic pipes (RTPs) for flexible risers and flowlines due to their fatigue

resistance and ease of deployment. Municipalities adopted high-density polyethylene (HDPE) pipes for urban water supply, stormwater drainage, and sewage systems. Meanwhile, the mining and chemical sectors favored polypropylene-lined thermoplastic pipes for corrosive fluid handling. Manufacturers emphasized multi-layer pipe structures and UV-resistant compounds to meet application-specific durability requirements. Innovation also expanded into smart piping systems, integrating sensors for pressure, temperature, and leakage monitoring. The Asia-Pacific region, particularly China and India, remained central to volume growth due to large-scale infrastructure development and increasing investments in irrigation and sanitation projects. Thermoplastic pipe market is poised for further expansion with the integration of advanced materials and sustainability initiatives. Growth is expected in green hydrogen transport, geothermal heating systems, and carbon capture infrastructure, where non-metallic, corrosion-resistant piping is essential. The push for net-zero emissions will fuel demand for recyclable and bio-based thermoplastic resins, especially in utility and construction applications. Technological advancements will continue to refine jointing techniques and automated installation methods, further reducing downtime and labor costs. Additionally, offshore energy and subsea exploration will drive innovation in high-pressure, deepwater pipe systems. However, market players must address challenges related to fluctuating resin prices, long-term creep resistance, and standardization across global regions to ensure adoption in critical infrastructure projects.

Key Insights Thermoplastic Pipe Market

Increased use of reinforced thermoplastic pipes (RTPs) in oil & gas and offshore energy sectors due to their flexibility, corrosion resistance, and ease of deployment in harsh environments.

Growing adoption of high-density polyethylene (HDPE) and cross-linked polyethylene (PEX) pipes in municipal water supply, sewage, and district heating systems.

Development of smart thermoplastic pipe systems with embedded sensors for real-time monitoring of pressure, leakage, and fluid flow in industrial and utility networks.

Rising interest in multi-layer and composite thermoplastic pipes designed for high-pressure and chemically aggressive fluid transportation.

Expansion of trenchless installation techniques, such as horizontal directional

drilling (HDD), supported by the flexibility and joint integrity of thermoplastic pipes.

Rapid urbanization and infrastructure modernization are driving the need for corrosion-resistant, cost-effective piping solutions in water, gas, and sanitation systems.

Environmental regulations and lifecycle cost considerations are encouraging industries to shift from metal to thermoplastic pipes for chemical and waste fluid transport.

Growth in offshore oil & gas and renewable energy projects is increasing demand for lightweight, flexible, and non-corrosive pipeline solutions.

Technological innovations in pipe manufacturing and installation are improving efficiency, reducing labor costs, and enabling use in remote or complex terrains.

The key challenge in Thermoplastic pipe market is ensuring consistent long-term performance under high pressure and temperature conditions, particularly in critical applications like oil transport and deepwater installations, where failure can lead to environmental and financial risks without standardized testing and certification protocols.

Thermoplastic Pipe Market Segmentation

By Product Type

Reinforced Thermoplastic Pipes (RTP)

Thermoplastic Composite Pipes (TCP)

By Polymer Type

Polyethylene (PE)

Polypropylene (PP)

Polyvinylidene Fluoride (PVDF)

Polyvinyl Chloride (PVC)

Other Polymer Types

By Application

Onshore

Offshore

By End-User

Oil And Gas

Water And Wastewater

Mining And Dredging

Utilities And Renewables

Key Companies Analysed

Chevron Phillips Chemical Company LLC

Georg Fischer Piping Systems Ltd.

Advanced Drainage Systems, Inc. (ADS)

SIMONA AG

INEOS Group Holdings S.A.

Wavin B.V. (Orbia Advance Corporation)

Uponor Corporation

Pipelife International GmbH (Wienerberger Group)

TechnipFMC plc

Shawcor Ltd.

Thermoplastic Pipe Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Thermoplastic Pipe Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Thermoplastic Pipe market data and outlook to 2034

United States

Canada

Mexico

Europe — Thermoplastic Pipe market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Thermoplastic Pipe market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Thermoplastic Pipe market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Thermoplastic Pipe market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Thermoplastic Pipe value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Thermoplastic Pipe industry

at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Thermoplastic Pipe Market Report

Global Thermoplastic Pipe market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Thermoplastic Pipe trade, costs, and supply chains

Thermoplastic Pipe market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Thermoplastic Pipe market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Thermoplastic Pipe market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Thermoplastic

Pipe supply chain analysis

Thermoplastic Pipe trade analysis, Thermoplastic Pipe market price analysis, and Thermoplastic Pipe supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Thermoplastic Pipe market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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