India Polyvinyl Chloride Market Assessment, By Type [Rigid PVC, Flexible PVC, Others], By Application [Pipes and Fittings, Film and Sheets, Wire and Cables, Bottles, Profiles and Tubes, Others], By End-user Industry [Building and Construction, Packaging, Automotive, Electronics, Others], By Region, Opportunities and Forecast, FY2019-FY2033F

Market Report | 2025-04-22 | 122 pages | Market Xcel - Markets and Data

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Report description:

India polyvinyl chloride market is projected to witness a CAGR of 4.98% during the forecast period FY2026-FY2033F, growing from USD 3.70 billion in FY2025 to USD 5.45 billion in FY2033. The Indian polyvinyl chloride (PVC) market is characterized by its versatility and widespread applications across various sectors, including building and construction, packaging, automotive, and electronics. Polyvinyl chloride is a synthetic polymer that finds application in plumbing, electrical insulation, window frames, and roofing materials. These substantial applications make PVC an essential component in the country's infrastructure development initiatives. Indian government initiatives toward the development of infrastructure and smart cities are a key factor driving the market growth for PVC in the country.

In July 2024, Adani Group announced its plans to commission the first phase of its USD 4 billion PVC project, which is anticipated to enter the petrochemicals sector by December 2026. The project aims to address the domestic demand and supply gap for PVC in the construction sector. PVC is a crucial synthetic plastic used in plumbing pipes, medical equipment, and cable insulation. The first phase will start the operations with a capacity of 1 million tons per annum by December 2026.

Growing Demand for Plumbing Pipes in Construction

The infrastructure sector, including both residential and non-residential, in India, is witnessing substantial growth and creating a strong surge for the PVC plumbing pipes, particularly for irrigation and water supply. The use of PVC pipes is preferred because these are extremely tough and corrosion resistant. Additionally, PVC pipes are highly economical in cost, which makes them suitable for constructing plumbing, insulation, window framing, and roofing in the construction industry. Furthermore, the

government initiatives such as the Smart Cities Mission, Housing for All, and Pradhan Mantri Awas Yojana (PMAY) significantly boosted the construction activities in the country and hence created smoother ways for the market growth of modern plumbing solutions. As cities expand and infrastructure projects thrive, PVC pipes emerge as a preferred choice because of their lightweight nature and ease of installation. Moreover, these pipes are preferred over traditional materials due to their corrosion resistance, lightweight nature, and longer shelf life. Technological advancements in PVC manufacturing have further enhanced their quality and performance, making them an attractive choice for construction projects.

In February 2025, Malpani Pipes and Fittings Limited invested USD 44.50 thousand in a new PVC pipe range and advanced production machinery to boost efficiency and capacity. The investment includes an extruder production line for PVC pipes, high-speed production lines for HDPE and MDPE pipes, a fully automatic socketing machine, and a horizontal heating-cooling mixer model. The aim is to enhance operational efficiency and market presence.

Growing Demand for Chlorinated-PVC in Industrial Piping

Chlorinated polyvinyl chloride (CPVC) pipes are recognized for their excellent durability, corrosion resistance, and ability to endure high temperatures, making them an ideal choice for both residential and commercial applications. Compared to metal pipes, the chlorinated-PVC pipes are highly resistant to corrosion and rust. These pipes have a longer shelf life and offer a clean water supply without leakage or contamination. These pipes are lightweight and easy to handle, which makes their installation less time-consuming and labor-intensive. As a result, they significantly reduce both labor costs and installation time. Furthermore, these pipes can be employed in many ways, ranging from cold and hot water supply systems in industrial processing and chemical transportation. This adaptability makes them highly preferable by the contractors and builders for effective plumbing solutions in the chemical industry. Furthermore, CPVC pipes are cost-effective compared to other options like copper or galvanized steel, which require more startup capital and maintenance expenses.

In October 2024, DCW Ltd, a specialty chemical manufacturer, announced a USD 16.50 million expansion of its chlorinated polyvinyl chloride (CPVC) production capacity from 20,000 MT to 50,000 MT to serve the growing demand across industries such as construction, industrial piping, and others. The expansion of the project will be in phases, and by Q2 2026, an additional 20,000 MT will be operational, and the remaining 10,000 by the end of 2026 will be operationalize.

India PVC Market Growth in Electronics Industry

Indian PVC market is growing on a large scale in the electronics industry due to its flexibility, toughness, and economic cost. It is used on a large scale for insulating cables and wires of electronics and has good performance against heat, chemicals, and water, giving safety and endurance in applications. In addition, higher demand for consumer electronics and industrial machinery also led to PVC usage growth in the electronic sector in the country. Furthermore, improvements in technology in the production of the technologies have also enabled the mass production of flexible and rigid PVC materials tailored to meet various electronic requirements. The government's local manufacturing initiative, through initiatives like "Make in India," is also driving investments in PVC production for use in electronics. Moreover, with the improvement of infrastructure and the industrial base in India, consistent growth in the demand for PVC in electrical and electronic applications is expected to be witnessed. Raw material cost volatility and environmental factors required a sustainable innovation in this sector to maintain further growth in this sector.

In December 2024, Biocon Electric Pvt. Ltd., an Indian manufacturer of electrical and electronic products, launched a new range of switches to meet the growing demand for high-quality electrical solutions. The switches are designed to meet safety standards and offer a variety of finishes, complementing interior designs. Biocon Electric also offers LED lights, PVC Tapes, wires and cables, and MCB and Switchgear, catering to both residential and commercial needs. The company is a pioneer in PVC insulation tapes in India, setting industry standards for quality and reliability.

Northern India Dominates India Polyvinyl Chloride Market

Northern region in India is dominating the PVC market, primarily due to the substantial infrastructure activities and reliance on advanced plumbing systems for water transportation within the city as well as pipe fittings within the buildings. The region has witnessed considerable investments in urban development and housing, which have been spurred by government initiatives to improve water supply and sanitation. The growing construction of residential and commercial buildings requires a plumbing solution that is durable and efficient. PVC pipes are highly in demand because they are cheaper, resistant to corrosion, and easier to install. Furthermore, in the industrial sector, PVC use in industrial plants and machinery also extends, its hardness and chemical resistance being the most valuable properties. Regardless of other parts of the world having greater control over markets,

Northern India's industrial complexes contribute hugely to overall demand for PVC arising due to urban development as well as infrastructural construction.
In October 2023, the Shand Group of Industries' flagship brand, Raksha Pipes, announced its plans for expanding its manufacturing capacity tenfold within the next five years, aiming for a turnover of up to USD 360 million by FY2029, with a 20% annual growth rate. The company is also planning to construct warehouses across the country to strengthen the distribution network and to further prepare for the agriculture pipe market.
Future Market Scenario (FY2026 - FY2033F)
-The Indian government's focus on infrastructure development, including initiatives like the Smart Cities Mission and Pradhan Mantri Awas Yojana, is expected to significantly boost the demand for PVC pipes. These projects emphasize modern sanitation, water supply systems, and housing, which are critical for urbanization and improving living standards.
-Growing environmental concerns regarding plastic usage are prompting the PVC industry to adopt sustainable manufacturing practices. Innovations in recycling and the development of eco-friendly alternatives will shape the future landscape of the PVC market, encouraging manufacturers to focus on sustainability while meeting regulatory standards.
-The ongoing emphasis on improving irrigation infrastructure in rural areas will continue to drive the demand for PVC pipes. Government initiatives aimed at enhancing agricultural productivity through efficient water management systems will further solidify PVC's role in supporting India's agricultural sector.
Key Players Landscape and Outlook
The key players in India PVC market dominate with strong brand recognition and extensive distribution networks, offering a comprehensive range of PVC products tailored for various applications, including plumbing, irrigation, and industrial use. Many of these major players are investing heavily in research and development to improve the quality and performance of their offerings, developing new formulations that will have better durability and reduced environmental impact while adhering to changing regulatory requirements. Strategic alliances, joint ventures, and mergers are among the common strategies used by these companies to increase market reach and enhance product offerings, especially for large-scale infrastructure contracts. While competition is strong in different regions, some players tend to focus on specific areas where demand for PVC products is particularly high, like North India for irrigation and urban infrastructure projects.
In April 2024, Epigral Limited, a chemical manufacturer, expanded its Chlorinated Polyvinyl Chloride (CPVC) resin plant in Gujarat, bringing its total capacity to 75,000 TPA. This is the world's largest CPVC resin facility at a single location. CPVC resin and compound are used in manufacturing pipes and fittings because of their resistance to heat and chemicals. Epigral is also expanding its CPVC compound production with a projected capacity of 35,000 TPA.

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