

**Chlorinated Polyvinyl Chloride Market Assessment, By Grade [Extrusion Grade, Adhesive Grade, Sheathing Grade], By Application [Pipe and Fittings, Fire Sprinkler, Power Cable Casing, Adhesives and Coatings, Others], By End-user [Building and Construction, Chemical, Electrical and Electronics, Agriculture, Others], By Region, Opportunities and Forecast, 2018-2032F**

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**Report description:**

Global chlorinated polyvinyl chloride market is projected to witness a CAGR of 8.39% during the forecast period 2025-2032, growing from USD 2.03 billion in 2024 to USD 3.87 billion in 2032.

Chlorinated polyvinyl chloride (CPVC) is a thermoplastic polymer produced by chlorinating polyvinyl chloride (PVC) resin. Due to its better qualities than traditional PVC, CPVC has gained popularity for industrial and plumbing applications. This increase is primarily attributed to the building and construction industry, which utilizes CPVC piping systems. These systems last many years and do not easily degrade when exposed to harsh chemicals, making them ideal for industrial, commercial, and residential projects.

Innovations in manufacturing technologies have further reduced costs while improving quality. The market is also being stimulated by strict laws related to sewage and water systems, which encourage the use of chlorinated polyvinyl chloride because of its better qualities, such as chemical stability and resilience to high temperatures.

The ability of CPVC to be applied in a broad range of applications, from fire safety to plumbing systems, makes it a reliable option for current infrastructure needs. Additionally, the energy-efficient nature of CPVC enhances its value, as sustainability has become an integral part of construction processes.

For example, in October 2024, leading Indian specialty chemical manufacturer DCW Limited announced a large investment of around USD 16.8 million to increase its production capacity from 20,000 metric tons (MT) of CPVC to 50,000 MT. Through a combination of process improvement, de-bottlenecking of current facilities, and new installations, the capacity will be increased

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by 30,000 MT.

#### Growth in Infrastructure and Construction Activities to Drive the Progress of the Chlorinated Polyvinyl Chloride Market

The construction industry is the second largest consumer of plastics, accounting for nearly 25% of all plastics consumed worldwide. With exceptional properties, CPVC, a versatile and durable thermoplastic, is gaining prominence in this industry. The product finds wide application in piping systems, fire sprinkler systems, roofing, and insulation because of its strength-to-weight ratio, facilitating transportation and installation on construction sites.

One of the significant advantages of CPVC is that it does not corrode, unlike metal pipes, and it withstands chemicals and extreme weather conditions. It is resistant to thermal and fire hazards, making it ideal for residential and commercial applications requiring hot and cold water. Additionally, CPVC has been proven to form the strongest, leak-free joints through solvent welding, thereby ensuring reliability in plumbing systems.

The increasing urbanization rates, population growth, and infrastructure investment will drive demand for construction materials, including CPVC. With a growing focus on sustainability and energy-efficient building solutions, CPVC is poised for upward momentum. It will find growth opportunities in line with governments worldwide that are seeking to modernize their infrastructure and establish smart cities.

#### Augmenting Demand for Fire Sparkling Systems in the Chlorinated Polyvinyl Chloride Market

One of the most significant drivers of this trend is the increasing emphasis on advanced fire safety systems, as evidenced by recent developments in the industry. CPVC has become a popular material for fire sprinkler systems owing to its exceptional resistance to corrosion, high temperatures, and chemical reactions. The growing use of CPVC in fire safety systems is primarily driven by the rising demand for effective and environmentally friendly fire suppression technology. Additionally, with anticipated improvements in fire safety technology and ongoing efforts to make commercial and industrial applications more ecologically friendly, there is likely to be a higher demand for fire sprinkler systems incorporating CPVC.

For instance, in October 2024, Siemens Smart Infrastructure announced its acquisition of Danfoss Fire Safety, a Denmark-based subsidiary of the Danfoss Group. This acquisition aims to strengthen Siemens' global presence in the fire safety market while promoting sustainable fire suppression technologies. The eco-friendly, fast-growing fire suppression solution Danfoss Fire Safety is expected to be part of Siemens' Buildings Business Unit, underlining the increasing importance of advanced, sustainable materials such as CPVC in modern fire safety systems.

Further, in December 2024, Siemens Smart Infrastructure finalized the acquisition of Danfoss Fire Safety, a specialist in fire suppression technology based in Denmark.

#### Pipe and Fittings Application Dominate the Chlorinated Polyvinyl Chloride Market

CPVC pipe fittings form the backbone of modern plumbing networks, providing a reliable method for joining and connecting CPVC pipes. This versatile material is gaining significant importance in plumbing due to its remarkable durability, corrosion resistance, and straightforward installation process. For these reasons, CPVC fittings are ideal for residential, commercial, and industrial applications.

For instance, in August 2024, Aliaxis SA stated that it had signed a definitive purchase agreement to acquire the manufacturing assets of Johnson Controls' CPVC pipe and fittings business for residential and light commercial sprinkler systems. With this acquisition, Aliaxis commits to its strategy of development in North America. For Aliaxis, the investment enhances a more complete portfolio related to the fire suppression area for applications in residential and light commercial markets.

#### Asia-Pacific to Witness Highest Growth Rate in Chlorinated Polyvinyl Chloride Market

Asia-Pacific is expected to be the fastest-growing market for CPVC in the coming years, due to rapid industrialization and urbanization with growing demand from end-use industries such as construction, plumbing, and fire sprinkler systems. Countries such as India and China are expected to be significant drivers, spurred by heavy investment in infrastructure development and greater adoption of CPVC in residential and commercial applications because of its durability, chemical resistance, and cost-effectiveness.

For instance, in June 2023, The Lubrizol Corporation, a global leader in specialty chemicals, announced plans to strengthen its presence in India with over USD 150 million in investments. This ranges from building India's biggest chlorinated polyvinyl chloride resin plant at Vilayat, Gujarat, and enhancing the capacity of its currently already existing chlorinated polyvinyl chloride compound facility in Dahej, Gujarat, from 70,000 metric tons to 140,000 tons. The company is further setting up a new grease

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laboratory in Navi Mumbai and plans to strengthen regional research and development capabilities as part of its strategy by raising a second global R&D Center in India. These initiatives shall significantly create jobs, innovation, and long-term growth for Lubrizol in the country in a way that will push forward India's position firmly in the chlorinated polyvinyl chloride market.

Future Market Scenario (2025 - 2032F)

-□The CPVC market is witnessing strong growth as it finds increasing applications in construction activities, especially plumbing and fire sprinkler systems, on account of its heat resistance and durability.

-□Urbanization and industrialization in emerging economies in the Asia-Pacific drive demand, which is supported by government investments in infrastructure development.

-□Advances in technology are enabling the production of more environmentally friendly CPVC materials, in line with the growing industrial and consumer demand for sustainability.

-□Regulatory challenges as well as fluctuations in raw material prices are reshaping market strategies, driving manufacturers to emphasize efficient production methods and sustainable sourcing practices.

Key Players Landscape and Outlook

Global chlorinated polyvinyl chloride market is characterized by continued research and development and strategic alliances to build market shares. Key players have been investing in R&D to enhance product performance, durability, and flexibility to be used in various applications. These efforts are supplemented by partnerships and collaborations that allow companies to increase their technological capabilities and geographical reach. Due to construction, plumbing, and chemical processing continuing to expedite the demand for CPVC; intense competition is expected to surface here as well. This is dynamic and calls for innovative approach and strategic alliances that shall craft the growth curve for this market.

For instance, in October 2024, Epigral Limited, the largest integrated chemical player in India, commissioned another 45,000 TPA of capacities at its CPVC resin plant in Dahej, Gujarat. Epigral's CPVC resin capacities now add up to 75,000 TPA and remain the world's largest single-unit facility for chlorinated polyvinyl chloride resins. Epigral is also venturing into the CPVC compound segment. The company is erecting a CPVC compound manufacturing plant with an envisaged capacity of 35,000 TPA. This is in construction and the facility shall operationalize in the first quarter of FY2025.

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\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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