

Global Construction Plastics Market - Plastic Types, Applications and End-Use Sectors

Market Report | 2025-11-25 | 334 pages | Industry Experts

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Report description:

Global Construction Plastics Market Trends and Outlook

Construction Plastics comprise a broad group of synthetic polymer-based materials derived primarily from petrochemicals and engineered for versatility, durability, and ease of molding across building and infrastructure applications. This category includes major families such as PVC, PE, PP, EPS, polycarbonates, acrylics, and composites, each valued for lightweight characteristics, corrosion resistance, weatherability, and compatibility with processes like extrusion, molding, and cutting. These materials are widely used in pipes, insulation panels, windows, doors, roofing, and flooring, offering advantages over traditional materials such as wood, metal, or concrete through lower maintenance, reduced installation time, and improved energy efficiency, while still carrying limitations such as lower load-bearing capacity and susceptibility to UV degradation without additives. The global Construction Plastics market is estimated at US\$122 billion in 2025 and is projected to reach US\$194.4 billion by 2032, supported by a 6.9% CAGR during 2025-2032.

Market growth is being fueled by rising demand for lightweight, durable, and cost-effective materials, alongside the construction sector's increasing focus on sustainability and technological advancements. The adoption of recycled and bio-based plastics continues to grow, driven by green building initiatives and stricter sustainability goals emphasizing energy efficiency and long-term material performance. Rapid urbanization and heightened infrastructure investment, coupled with the installation and cost advantages plastics offer over conventional building materials, are further accelerating uptake. Additionally, the shift toward modular and prefabricated construction is boosting the use of plastics that deliver enhanced fire resistance, thermal insulation, and UV stability, reinforcing their expanding role across residential, commercial, and industrial applications.

Construction Plastics Regional Market Analysis

With an estimated 2025 share of 44.3% and a forecast 2025-2032 CAGR of 7.2%, Asia-Pacific is the largest and fastest growing global market for Construction Plastics. Rapid urbanization, population growth, and massive infrastructure development across China, India, and Southeast Asia are factors propelling demand for affordable, durable materials in housing and public projects. Strong government investments in smart cities and infrastructure, coupled with the region's extensive petrochemical and manufacturing base, are ensuring low-cost, large-scale plastic production. Accelerated adoption of prefabricated and lightweight

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building systems, growing sustainability initiatives promoting recycled plastics, and the aptness of materials for diverse climates are further driving growth. Additionally, rising middle-class homeownership and continuous innovation in polymer technologies further reinforce the region's dominance in both market size and expansion rate.

Construction Plastics Market Analysis by Plastic Type

Polyvinyl Chloride (PVC) remains the most widely used construction plastic in 2025 with a dominant 36.4% share, thanks to its versatility, durability, and affordability across applications like pipes, windows, flooring, cables, and roofing. Its corrosion resistance, fire-retardant properties, and low maintenance make it a reliable choice for both residential and non-residential projects, especially across fast-growing markets in Asia-Pacific and North America. Meanwhile, Polyethylene (PE) is emerging as the fastest-growing construction plastic, projected to register a strong 7.53% CAGR through 2025-2032, supported by its lightweight nature, recyclability, and expanding use in pipes, insulation, and roofing. As urbanization accelerates and governments push for greener, more cost-efficient materials, PE's durability and alignment with sustainable construction trends are positioning it as a rising favorite in global infrastructure and housing development.

Construction Plastics Market Analysis by Application

Apart from being the largest with a share of 34.3% in 2025, Piping & Ducting also forms the fastest growing application for Construction Plastics on a global basis, forecast to register a 2025-2032 compounded annual rate of 7.2%. Pipes & ducts made using plastics find widespread use in plumbing, drainage, and HVAC systems across all types of buildings, substantiated by their benefits, such as corrosion resistance, lightweight handling, durability, and cost efficiency. Rapid urbanization, infrastructure expansion, and increased adoption of prefabricated and modular construction are accelerating demand, while advances in polymer technology, regulatory standards for energy & water efficiency, and sustainability initiatives promoting recycled & bio-based plastics are further driving growth. In addition, the ease of installation and low maintenance requirements make plastic piping and ducting systems ideal for both new construction and retrofitting projects, reinforcing their dominant position in the market.

Construction Plastics Market Analysis by End-Use Sector

The Residential sector is set to lead the global Construction Plastics market in 2025 with a sizable 53.7% share, driven by its vast building base and steady demand from both new housing and renovation projects, where materials like PVC, PE, and polyurethane are favored for their durability, corrosion resistance, affordability, and easy installation across piping, insulation, flooring, and window systems. In contrast, the Non-Residential sector is expected to grow faster at a 7.3% CAGR through 2025-2032 as commercial, industrial, and infrastructure projects increasingly adopt advanced plastic solutions aligned with modular construction, energy-efficient designs, and stricter building regulations. Rising investments in offices, healthcare, retail, and public infrastructure, coupled with the demand for engineered plastics in HVAC, facades, and insulation, are accelerating uptake and making non-residential construction a rapidly expanding growth avenue.

Construction Plastics Market Report Scope

This global report on Construction Plastics analyzes the market based on Plastic Type, Application and End-Use Sector for the period 2022-2032 with projections from 2025 to 2032 in terms of value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2022-2024

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Base Year: 2025

Forecast Period: 2025-2032

Units: Value market in US\$

Companies Mentioned: 35+

Construction Plastics Market by Geographic Region

- North America (United States, Canada and Mexico)
- Europe (France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- South America (Argentina, Brazil and Rest of South America)
- Middle East & Africa (Saudi Arabia, South Africa, Turkiye, UAE and Rest of Middle East & Africa)

Construction Plastics Market by Plastic Type

- Polyethylene (PE)
- Polypropylene (PP)
- Polystyrene (PS)
- Polyurethanes (PU)
- Polyvinyl Chloride (PVC)
- Other Plastic Types [Incl. Acrylics (PMMA), Polycarbonate (PC) and Polyethylene Terephthalate (PET)]

Construction Plastics Market by Application

- Doors & Windows
- Insulation
- Piping & Ducting
- Roofing
- Other Applications (Incl. Cladding & Siding, Floors and Wall Coverings)

Construction Plastics Market by End-Use Sector

- Non-Residential
- Residential

Table of Contents:

PART A: GLOBAL MARKET PERSPECTIVE

1. Introduction

- Construction Plastics Outline
- Construction Plastics Defined
- Construction Plastics Types
 - o□Polyethylene (PE)
 - o□Polypropylene (PP)
 - o□Polystyrene (PS)
 - o□Polyurethane (PU)
 - o□Polyvinyl Chloride (PVC)
 - o□Other Plastic Types
- Construction Plastics Applications
 - o□Doors & Windows
 - o□Insulation

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- o Piping & Ducting
- o Roofing
- o Other Applications
- Construction Plastics End-Use Sectors
- o Non-Residential
- o Residential
- 2. Key Market Trends
- 3. Key Market Players
- ACH Foam Technologies LLC
- Arkema SA
- Asahi Kasei Corp
- Avient Corp
- BASF SE
- Berry Plastics Corp
- Borealis AG
- Braskem SA
- Chevron Phillips Chemical Company LLC
- China Petrochemical Corp
- Clariant AG
- Covestro AG
- Dow, Inc.
- DSM NV
- DuPont de Nemours, Inc.
- Eastman Chemical Co
- Engineered Profiles LLC
- Evonik Industries AG
- ExxonMobil Corp
- Formosa Plastics Corp
- Huntsman Corp
- INEOS Group Holdings SA
- Lanxess AG
- LG Chem Ltd
- LyondellBasell Industries Holding BV
- Mitsubishi Chemical Corp
- PetroChina Co. Ltd
- Reliance Industries Ltd (RIL)
- SABIC
- Shin-Etsu Chemical Co Ltd
- Solvay SA
- Sumitomo Chemical Co Ltd
- Teknor Apex
- TotalEnergies SE
- Westlake Chemical Corp
- 4. Key Business & Product Trends
- 5. Global Market Overview
- Global Construction Plastics Market Overview by Plastic Type
- o Construction Plastics Plastic Type Market Overview by Global Region

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- Polyethylene (PE)
- Polypropylene (PP)
- Polystyrene (PS)
- Polyurethanes (PU)
- Polyvinyl Chloride (PVC)
- Other Plastic Types
- Global Construction Plastics Market Overview by Application
 - o□Construction Plastics Application Market Overview by Global Region
- Doors & Windows
- Insulation
- Piping & Ducting
- Roofing
- Other Applications
- Global Construction Plastics Market Overview by End-Use Sector
 - o□Construction Plastics End-Use Sector Market Overview by Global Region
- Non-Residential
- Residential

PART B: REGIONAL MARKET PERSPECTIVE

- Global Construction Plastics Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. North America

- North American Construction Plastics Market Overview by Geographic Region
- North American Construction Plastics Market Overview by Plastic Type
- North American Construction Plastics Market Overview by Application
- North American Construction Plastics Market Overview by End-Use Sector
- Country-wise Analysis of North American Construction Plastics Market
 - o□The United States
 - United States Construction Plastics Market Overview by Plastic Type
 - United States Construction Plastics Market Overview by Application
 - United States Construction Plastics Market Overview by End-Use Sector
 - o□Canada
 - Canadian Construction Plastics Market Overview by Plastic Type
 - Canadian Construction Plastics Market Overview by Application
 - Canadian Construction Plastics Market Overview by End-Use Sector
 - o□Mexico
 - Mexican Construction Plastics Market Overview by Plastic Type
 - Mexican Construction Plastics Market Overview by Application
 - Mexican Construction Plastics Market Overview by End-Use Sector

7. Europe

- European Construction Plastics Market Overview by Geographic Region
- European Construction Plastics Market Overview by Plastic Type
- European Construction Plastics Market Overview by Application
- European Construction Plastics Market Overview by End-Use Sector
- Country-wise Analysis of European Construction Plastics Market
 - o□France
 - French Construction Plastics Market Overview by Plastic Type
 - French Construction Plastics Market Overview by Application

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- [] French Construction Plastics Market Overview by End-Use Sector
- o [] Germany
 - [] German Construction Plastics Market Overview by Plastic Type
 - [] German Construction Plastics Market Overview by Application
 - [] German Construction Plastics Market Overview by End-Use Sector
- o [] Italy
 - [] Italian Construction Plastics Market Overview by Plastic Type
 - [] Italian Construction Plastics Market Overview by Application
 - [] Italian Construction Plastics Market Overview by End-Use Sector
- o [] Russia
 - [] Russian Construction Plastics Market Overview by Plastic Type
 - [] Russian Construction Plastics Market Overview by Application
 - [] Russian Construction Plastics Market Overview by End-Use Sector
- o [] Spain
 - [] Spanish Construction Plastics Market Overview by Plastic Type
 - [] Spanish Construction Plastics Market Overview by Application
 - [] Spanish Construction Plastics Market Overview by End-Use Sector
- o [] United Kingdom
 - [] United Kingdom Construction Plastics Market Overview by Plastic Type
 - [] United Kingdom Construction Plastics Market Overview by Application
 - [] United Kingdom Construction Plastics Market Overview by End-Use Sector
- o [] Rest of Europe
 - [] Rest of Europe Construction Plastics Market Overview by Plastic Type
 - [] Rest of Europe Construction Plastics Market Overview by Application
 - [] Rest of Europe Construction Plastics Market Overview by End-Use Sector
- 8. Asia-Pacific
 - [] Asia-Pacific Construction Plastics Market Overview by Geographic Region
 - [] Asia-Pacific Construction Plastics Market Overview by Plastic Type
 - [] Asia-Pacific Construction Plastics Market Overview by Application
 - [] Asia-Pacific Construction Plastics Market Overview by End-Use Sector
 - [] Country-wise Analysis of Asia-Pacific Construction Plastics Market
- o [] China
 - [] Chinese Construction Plastics Market Overview by Plastic Type
 - [] Chinese Construction Plastics Market Overview by Application
 - [] Chinese Construction Plastics Market Overview by End-Use Sector
- o [] India
 - [] Indian Construction Plastics Market Overview by Plastic Type
 - [] Indian Construction Plastics Market Overview by Application
 - [] Indian Construction Plastics Market Overview by End-Use Sector
- o [] Japan
 - [] Japanese Construction Plastics Market Overview by Plastic Type
 - [] Japanese Construction Plastics Market Overview by Application
 - [] Japanese Construction Plastics Market Overview by End-Use Sector
- o [] South Korea
 - [] South Korean Construction Plastics Market Overview by Plastic Type
 - [] South Korean Construction Plastics Market Overview by Application
 - [] South Korean Construction Plastics Market Overview by End-Use Sector

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o Rest of Asia-Pacific

- Rest of Asia-Pacific Construction Plastics Market Overview by Plastic Type
- Rest of Asia-Pacific Construction Plastics Market Overview by Application
- Rest of Asia-Pacific Construction Plastics Market Overview by End-Use Sector

9. South America

- South American Construction Plastics Market Overview by Geographic Region
- South American Construction Plastics Market Overview by Plastic Type
- South American Construction Plastics Market Overview by Application
- South American Construction Plastics Market Overview by End-Use Sector
- Country-wise Analysis of South American Construction Plastics Market

o Argentina

- Argentine Construction Plastics Market Overview by Plastic Type
- Argentine Construction Plastics Market Overview by Application
- Argentine Construction Plastics Market Overview by End-Use Sector

o Brazil

- Brazilian Construction Plastics Market Overview by Plastic Type
- Brazilian Construction Plastics Market Overview by Application
- Brazilian Construction Plastics Market Overview by End-Use Sector

o Rest of South America

- Rest of South American Construction Plastics Market Overview by Plastic Type
- Rest of South American Construction Plastics Market Overview by Application
- Rest of South American Construction Plastics Market Overview by End-Use Sector

10. Middle East & Africa

- Middle East & Africa Construction Plastics Market Overview by Geographic Region
- Middle East & Africa Construction Plastics Market Overview by Plastic Type
- Middle East & Africa Construction Plastics Market Overview by Application
- Middle East & Africa Construction Plastics Market Overview by End-Use Sector
- Country-wise Analysis of South American Construction Plastics Market

o Saudi Arabia

- Saudi Arabian Construction Plastics Market Overview by Plastic Type
- Saudi Arabian Construction Plastics Market Overview by Application
- Saudi Arabian Construction Plastics Market Overview by End-Use Sector

o South Africa

- South African Construction Plastics Market Overview by Plastic Type
- South African Construction Plastics Market Overview by Application
- South African Construction Plastics Market Overview by End-Use Sector

o Turkiye

- Turkiye Construction Plastics Market Overview by Plastic Type
- Turkiye Construction Plastics Market Overview by Application
- Turkiye Construction Plastics Market Overview by End-Use Sector

o UAE

- UAE Construction Plastics Market Overview by Plastic Type
- UAE Construction Plastics Market Overview by Application
- UAE Construction Plastics Market Overview by End-Use Sector

o Rest of Middle East & Africa

- Rest of Middle East & Africa Construction Plastics Market Overview by Plastic Type
- Rest of Middle East & Africa Construction Plastics Market Overview by Application

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- Rest of Middle East & Africa Construction Plastics Market Overview by End-Use Sector

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK

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