

Off-highway Plastics Market by Material Type (Polypropylene, Polyvinyl Chloride, Polyethylene, Polyamide, Acrylonitrile Butadiene Styrene, Polycarbonate, Polyoxymethylene, Thermoplastic Elastomer, Bio-based Plastics), Process Type (Injection Molding, Extrusion, Compression Molding, Blow Molding, Additive Manufacturing/3D Printing, Other Process Types), End User (Construction, Agriculture, Mining, Material Handling), and Region – Global Forecast to 2030

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Abstracts

The off-highway plastics market is expected to grow from USD 9.44 billion in 2025 to USD 13.08 billion by 2030, at a CAGR of 6.8% during the forecast period. This growth is driven by demand for lightweight materials in heavy equipment, which enhances fuel efficiency, reduces operational costs, and decreases diesel emissions in construction, agricultural, and mining equipment. Additionally, global infrastructure development and urban expansion, along with increased mining operations, create a strong demand for durable plastics that resist corrosion and can replace heavier metal materials in body panels, interior components, and under-hood systems. The growing demand for electrification and hybrid technology in off-highway equipment creates significant market potential for specialized plastics used in battery enclosures, thermal management systems, and structural elements. Manufacturers are encouraged to use high-performance polymers, as stringent emission regulations and sustainability requirements require improved environmental performance. Materials such as polyamides and polypropylenes are increasingly in demand. Furthermore, the market is

evolving due to advancements in heat-resistant, durable, recyclable plastics that offer superior performance in extreme off-road conditions—trends that are particularly evident amid the growing mechanization in developing countries.

“Polyamide is the fastest-growing material type in the off-highway plastics market during the forecast period.”

Polyamide is the fastest-growing material type in the off-highway plastics market during the forecast period, due to its excellent mechanical strength, thermal stability, and wear resistance. The construction, agricultural, and mining industries require off-highway equipment that can withstand extreme mechanical stress, high temperatures, and continuous vibration. This creates strong demand for materials that maintain their structural integrity under such challenging conditions. Polyamide boasts outstanding tensile strength, high impact resistance, and excellent fatigue performance, making it suitable for a wide range of applications, including gears, bearings, engine components, electrical connectors, and under-hood applications. The material also demonstrates excellent resistance to common chemicals, oils, and fuels typically encountered by heavy machinery operators. Furthermore, polyamide’s stiffness and load-bearing capacity can be enhanced through glass fiber reinforcement, enabling the replacement of metal parts and reducing total equipment weight. With the increasing use of electric power in off-highway vehicles, there is a rising need for materials that can withstand high temperatures and prevent electrical conduction—qualities that polyamide effectively provides.

“Extrusion is the second largest process type segment in the off-highway plastics market during the forecast period.”

Extrusion is the second-most common method in the off-highway plastics industry, due to its efficiency in producing plastic parts with consistent dimensions, which are essential for various heavy equipment applications. This process is particularly effective for manufacturing pipes, tubing, hoses, seals, profiles, cable insulation, and protective trims, all of which are widely needed in construction, agricultural, and mining machinery. Off-highway vehicles rely on robust fluid transfer systems, wiring protection, and weatherproof sealing systems, all of which manufacturers create using extrusion techniques. This method allows businesses to produce their products from raw materials while ensuring uniform product dimensions throughout the manufacturing process. Extrusion enables the processing of various thermoplastics, including polyethylene, polypropylene, and polyamide, as well as reinforced thermoplastics and special compounds that provide enhanced material strength and chemical resistance.

Manufacturers also leverage technological advancements, such as co-extrusion and multilayer extrusion, to create material combinations that enhance performance, including UV resistance, thermal stability, and flexibility. The off-highway plastics market benefits from strong market presence, driven by its ability to produce extended materials through cost-effective tooling and to scale operations efficiently.

“Agriculture is the fastest growing end-user segment in the off-highway plastics market during the forecast period.”

Agriculture is the fastest-growing end user in the off-highway plastics market, driven by rising food demands, new farming technologies, and increased equipment usage. Farmers looking to boost their crop yields are investing in advanced agricultural machinery, including tractors, harvesters, sprayers, and irrigation equipment. These machines require lightweight yet durable, corrosion-resistant plastic parts. Such plastics are essential for constructing hoods, fenders, cabins, fuel tanks, fluid reservoirs, and protective covers. Using plastics effectively reduces equipment weight, improving fuel efficiency and maneuverability in the field. High-performance polymers are necessary for agricultural machinery as these machines operate under harsh conditions, including exposure to moisture, chemicals, fertilizers, UV radiation, and temperature fluctuations. In countries like India and China, rural development programs and government subsidies further encourage farmers to adopt modern equipment. Additionally, the rise of precision farming and smart agricultural practices is driving demand for plastic housings to protect sensors, electrical systems, and lightweight structural components. As a result, the off-highway plastics market is experiencing its most rapid growth in the agriculture sector, which is adapting to meet increasing agricultural demands.

“North America is the second-fastest growing region in the off-highway plastics market during the forecast period.”

North America is the second-fastest-growing region in the off-highway plastics market because of continuous funding for infrastructure upgrades, modern farming techniques, and mining activities that are being expanded. Construction and farm equipment demand is rising across the region, which includes the US and Canada, because government infrastructure projects, residential building, and precision agriculture methods are expanding. The rising demand for off-highway vehicle components leads to increased requirements for lightweight plastic materials, which provide high-performance capabilities in various vehicle components, including cabins, engine housings, fluid systems, and structural parts. The implementation of strict emission standards together with fuel efficiency regulations drives manufacturers to switch from

metal materials to advanced polymer solutions, which decrease equipment weight while enhancing operational productivity. North America possesses essential research and development capabilities, together with advanced manufacturing technology recovery methods such as automation and additive manufacturing, which support major equipment manufacturers' activities. The rising popularity of electrified and hybrid off-highway equipment drives increased demand for specialized plastic materials, which establishes North America as a fast-growing market that focuses on technological progress.

Extensive primary interviews were conducted to determine and verify the market size for several segments and subsegments, and the information was gathered through secondary research.

The breakdown of primary interviews is given below:

By Department: Tier 1: 40%, Tier 2: 25%, and Tier 3: 35%

By Designation: C Level: 35%, Director Level: 30%, and Executives: 35%

By Region: North America: 25%, Europe: 45%, Asia Pacific: 20%, South America: 5%, and Middle East & Africa 5%

Bemis Manufacturing Company (US), EVCO Plastics (US), MacLean-Fogg (US), Gemini Group, Inc. (US), Lippert (US), Mack Molding Co. (US), Röchling (Germany), Mitsubishi Chemical Group (Japan), Trelleborg AB (Sweden), and Varroc Group (India), among others, are some of the key players in the off-highway plastics market. The study includes an in-depth competitive analysis of these key players in the off-highway plastics market, with their company profiles, recent developments, and key market strategies.

Research Coverage

The market study covers the off-highway plastics market across various segments. It aims to estimate the market size and the growth potential of this market across different segments based on material type, process type, end-user, and region. The study also includes an in-depth competitive analysis of key players in the market, their company profiles, key observations related to their products and business offerings, recent developments undertaken by them, and key growth strategies adopted by them to

improve their position in the off-highway plastics market.

Key Benefits of Buying the Report

The report is expected to help the market leaders/new entrants in this market share the closest approximations of the revenue numbers of the overall off-highway plastics market and its segments and subsegments. This report is projected to help stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses, and plan suitable go-to-market strategies. The report also aims to help stakeholders understand the pulse of the market and provide them with information on the key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of key drivers (increasing infrastructure development and construction activities worldwide, cost-effective alternatives to metals), restraints (capital & operational costs of on-site energy systems, volatile raw material prices), opportunities (low-carbon polymer adoption in heavy equipment, real-time structural monitoring using smart materials), challenges (environmental regulation impacting polymer formulations, ensuring long term durability in harsh operating environments)

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the off-highway plastics market

Market Development: Comprehensive information about lucrative markets – the report analyses the off-highway plastics market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the off-highway plastics market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Bemis Manufacturing Company (US), EVCO Plastics (US), MacLean-Fogg (US), Gemini Group, Inc. (US), Lippert (US), Mack Molding Co. (US), R?chling (Germany), Mitsubishi Chemical Group (Japan), Trelleborg AB (Sweden), and Varroc Group (India),

among others, are the top manufacturers covered in the off highway plastics market.

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