Grafted Polyolefins Market by Type (Maleic Anhydride Grafted PE, Maleic Anhydride Grafted PP, Maleic Anhydride Grafted EVA), Application (Adhesion Promotion, Impact Modification, Compatibilization, Bonding), End-Use Industry - Global Forecast 2029

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Abstracts

The Grafted polyolefins market size is projected to grow from USD 1.8 billion in 2024 to USD 2.3 billion by 2029, registering a CAGR of 4.8% during the forecast period. The grafted polyolefins market is experiencing substantial growth driven by a convergence of key factors across various industries. The proliferation of electronic devices, coupled with advancements in flexible and lightweight materials, propels the demand for Maleic Anhydride Grafted PE. Additionally, the rising significance of sustainable and high-performance packaging solutions fuels the market. The expansion of end-use industries such as textiles, automotive, and construction, coupled with increasing consumer awareness regarding product safety and longevity, further contributes to the market's growth.

“Maleic Anhydride Grafted PE accounted for the largest share in type segment of grafted polyolefins market in terms of value.”

Conductive films dominate the largest market share in the grafted polyolefins market due to their capacity to improve compatibility and adhesion capabilities, unique rheological properties, and varied applications in a variety of industries such as automotive, packaging, and construction. The addition of maleic anhydride (MAH) to polyolefins introduces functional groups that can react with other polymers or molecules, resulting in better interfacial bonding and compatibility between phases, making them appropriate for a variety of applications. The positive deviation from the expected values in the blend's viscosity and the sum of logarithms of the viscosities of

each component suggests a high interaction between the phases, which can be related to the construction of a network structure between the grafted polyolefins and other components. This behaviour results in improved mechanical characteristics and processability, making maleic anhydride-grafted polyolefins a popular alternative for numerous applications.

“Extrusion accounted for the largest share in processing technology segment of grafted polyolefins market in terms of value.”

The dominance of polyethylene in the grafted polyolefins market can also be attributed to its adaptability in a wide range of applications. Extrusion techniques can be used to treat grafted polyolefins such as Maleic Anhydride Grafted Polyethylene (PE), Polypropylene (PP), and Ethylene Vinyl Acetate (EVA) for a variety of applications such as adhesion promotion, impact modification, and compatibility. Extrusion allows for the creation of a wide range of products, including pipes, profiles, films, and sheets, making it a critical technology for the grafted polyolefins industry. Extrusion is a low-cost and efficient processing technology that enables high-volume production of grafted polyolefin-based products. Extrusion is also compatible with most thermoplastic processing technologies, allowing the production of plastic alloys and improving the compatibility of grafted polyolefins with other plastics. Furthermore, the adaptability of extrusion in the grafted polyolefins industry goes beyond traditional applications. Extrusion is increasingly being used in the production of advanced materials, such as nanocomposites and biodegradable plastics, where grafted polyolefins play a crucial role in enhancing the properties and performance of these materials.

“Automotive end-user industry accounted for the largest share in end-use segment of Grafted polyolefins market in terms of value.”

The grafted polyolefins market experiences robust growth primarily driven by the growing demand for lightweight and fuel-efficient vehicles has resulted in the use of advanced materials, such as grafted polyolefins, to reduce the overall weight of automotive parts while maintaining performance. Additionally, the growing emphasis on sustainability and recyclability in the automotive sector has increased demand for grafted polyolefins, as these materials can be easily recycled and reused, contributing to a more circular economy. For example, these materials are increasingly being used in the production of electric vehicles (EVs) and hybrid electric vehicles (HEVs), where they play an important role in the manufacture of battery components, charging systems, and other critical EV/HEV components. This increased application scope in the fast growing EV/HEV market is likely to drive up demand for grafted polyolefins in the automotive industry.

“Asia-Pacific is the largest market for Grafted polyolefins.”

its large and rising customer base, strong industrial sector, abundant raw materials, and favourable regulatory environment. The region's rapidly rising customer base generates demand for a variety of grafted polyolefin-based products, including packaging materials, textiles, and consumer goods. Furthermore, the region's industrial sector, particularly in the automotive, construction, and electronics industries, is a major user of grafted polyolefins, which are used to manufacture lightweight automobiles, coatings, adhesives, and sealants, among other things. The region's supply of raw materials, notably polyolefins, lowers the manufacturing costs of grafted polyolefins, making it more cost-effective for manufacturers to do business there Furthermore, the region's favorable regulatory environment, such as the increasing adoption of bio-degradable polyethylene due to rising environmental concerns, is expected to drive the demand for grafted polyolefins.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the grafted polyolefins market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 40%, Tier 2 – 30%, and Tier 3 – 30%

By Designation: C Level Executives– 20%, Directors – 10%, and Others – 70%

By Region: North America – 20%, Europe – 30%, APAC – 30%, the Middle East & Africa –10%, and South America- 10%

The Grafted polyolefins market comprises major players such include Mitsubishi Chemical Group Corporation (Japan), Guangzhou Lushan New Materials Co., Ltd.(China), LyondellBasell Industries Holdings B.V.(USA), Mitsui Chemicals Asia Pacific, Ltd.(Japan), Arkema (France), Clariant (Switzerland), Borealis AG (Austria), SI Group, Inc.(US), Dow (US), COACE (China), and others. The study includes in-depth competitive analysis of these key players in the grafted polyolefins market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for grafted polyolefins market on the basis of material, type, application, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, expansions, and mergers & acquisitions associated with the market for grafted polyolefins market.

Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the Grafted polyolefins market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of drivers: (Increasing demand for enhanced polymers, Technological advancements in polymer science, Growing focus on sustainable solutions.), restraints (Stringent regulatory compliances), opportunities (Innovative & emerging applications across various industries), and challenges (Cost of production & technical complexity) influencing the growth of grafted polyolefins market.

Market Penetration: Comprehensive information on the grafted polyolefins market offered by top players in the global grafted polyolefins market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, in the grafted polyolefins market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for grafted polyolefins market across regions.

Market Capacity: Production capacities of companies producing grafted polyolefins are provided wherever available with upcoming capacities for the grafted polyolefins market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the grafted polyolefins market.

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