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India Additive Masterbatch Market Assessment, By Functionality [UV Stabilizer, Antioxidant, Antimicrobial, Flame-Retardant, Anti-slip, Anti-corrosive, Hybrid, Others], By Resin Type [Polypropylene, Polyethylene, Polystyrene, PET, PVC, PVA, Others], By Application [Molding, Lamination, Insulation, Manufacturing, Others], By End-use Industry [Packaging, Agriculture, Building & Construction, Electrical & Electronics, Transportation, Consumer Goods, Toys/Recreational Products, Others], By Region, Opportunities and Forecast, FY2017-FY2031

https://marketpublishers.com/r/I045467323F2EN.html
Date: February 2025
Pages: 106
Price: US$ 3,300.00 (Single User License)
ID: I045467323F2EN

Abstracts

India additive masterbatch market size was valued at USD 128.7 million in FY2023, which is expected to grow to USD 231.2 million in FY2031, with a CAGR of 7.6% during the forecast period between FY2024 and FY2031. Technological progress, industrial growth, consumer preferences, and regulations shape the additive masterbatch market in India. Innovations in additive masterbatch formulas, particularly tailored for applications like packaging, automotive, and agriculture industries, will drive market expansion. Additionally, demand for plastic products across different sectors contributes to its growth.

India's steady economic growth, increasing urbanization, and consumption patterns are creating a surge in the demand for various plastic products, bolstering the additive

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masterbatch market. This growth aligns with the ever-evolving consumer preferences for visually appealing and functional plastic products, necessitating using additive masterbatches to achieve aesthetics and performance attributes.

Furthermore, the growing recognition of the benefits associated with additive masterbatches, such as enhanced material properties, UV protection, and improved durability, is pivotal in driving their adoption across industries. This increasing awareness, which aligns with the ongoing drive for sustainable practices, fosters the creation of eco-friendly additive masterbatch solutions. Both domestic and international regulatory norms exert significant influence on the market. Compliance necessities related to environmental sustainability, safety, and health standards propel the uptake of specific additive masterbatch formulations.

Growing Usage in Agriculture

Agriculture is a substantial driver for the additive masterbatch market in India, owing to its diverse applications in enhancing agricultural practices. Additive masterbatches play a pivotal role in crop protection and preservation by fortifying agricultural films with UV stabilizers and antimicrobial agents. These films extend the lifespan of crop protection materials, ensuring durability against adverse weather and microbial threats. Furthermore, they contribute to efficient irrigation systems through water-conserving mulch films, bolstering sustainable water use in farming. Additive masterbatches facilitate soil health maintenance by retaining moisture and nutrients, while specialized formulations offer a controlled release of fertilizers and pesticides for precision farming. This application of additive masterbatches in agriculture aligns with the growing need for sustainable and productive farming methods, safeguarding both crop yield and environmental well-being.

For instance, the infusion of technological investment has been robust, with venture capital firms investing over USD 1.2 billion in 2022 alone across 114 deals. This figure marks a notable surge of 50 percent from the preceding year and a tripling of investments compared to 2020. This upward trajectory is mirrored in expanding the average deal size, reflecting the maturation of startups operating within this sector. As technology continues to reshape the agricultural landscape, it fuels the demand for solutions like additive masterbatch that enhance crop protection, sustainability, and overall yield.

Increasing Plastic Consumption

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The growing utilization of plastic products across sectors like packaging, automotive, construction, and consumer goods has resulted in an escalated requirement for additive masterbatches. This demand stems from the need to elevate the characteristics of plastic materials to fulfil precise criteria. This becomes particularly pertinent when considering the integration of recycled plastics into these industries, where additive masterbatches play a crucial role in optimizing the properties of these materials to align with desired specifications.

For instance, in the beginning of 2022, India's Ministry of Environment, Forest and Climate Change introduced a comprehensive framework for Extended Producer Responsibility (EPR) in plastic packaging. These guidelines impose obligatory targets for recycling plastic packaging waste, encouraging the reuse of rigid plastic containers, and promoting the integration of recycled content. The framework outlines ambitious recycling rate objectives, ranging from 30 to 50 percent, applicable to diverse plastic packaging categories by 2025. Additionally, it mandates incorporating recycled plastic content, with proportions ranging from 5 to 30 percent. This regulatory initiative exemplifies a potent driver for the additive masterbatch market, as it compels industries to adopt solutions that enhance recyclability, durability, and recycled material integration in their plastic products, aligning with the sustainability and circular economy objectives set forth by the government.

Impact of COVID-19

The COVID-19 pandemic posed substantial challenges for the additive masterbatch market in India, characterized by disruptions in supply chains, temporary factory closures, and diminished demand from downstream sectors like automotive, construction, and non-essential consumer goods. The initial lockdown measures created obstacles to production and strained material availability, resulting in tightening the market's supply dynamics.

However, the crisis illuminated the critical role of plastics in healthcare, packaging, and sanitation products, consequently triggering a shift in demand towards medical devices and essential goods packaging. The accelerated adoption of remote work and the surge in e-commerce stimulated a heightened need for electronics and packaging materials, augmenting the demand for additive masterbatch in India.

Impact of Russia-Ukraine War

The ongoing conflict has led to significant disruptions in global supply chains, impacting

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the availability of raw materials and transportation routes. As a result, the price of additive masterbatch in India has experienced an increase due to these disrupted supply-demand dynamics. Additionally, the political uncertainty has decreased demand from various industries in India, leading to a postponement or cancellation of development investments.

The decrease in masterbatch production triggered by the decline in downstream sectors has coincided with elevated costs of crucial feedstock materials, including CaCo3 powder, titanium dioxide, polymers, carbon black, pigments, dyes, and additives. This convergence of factors has played a significant role in the price surge, which hurts consumer sentiments.

Key Players Landscape and Outlook

Major additive masterbatch producers in India are introducing novel product offerings tailored to specific applications to attract more downstream consumers. Clariant launched its latest light stabilizer solution for polyethylene agricultural films under AddWorks AGC 970 as an illustrative example. This innovative solution provides the mulch segment with an elevated level of product durability, aligning with the strategy of offering products designed to meet the unique requirements of end-users.

The future of the Indian additive masterbatch market appears promising due to increasing demand in the packaging, automotive, and agriculture sectors. Technological progress, sustainability focus, regulatory adherence, and agricultural integration play pivotal roles. Investments, innovations, and consumer favor for eco-friendly solutions increase growth prospects aligned with global trends. Driven by improved performance, aesthetics, and environmental responsibility, the demand for additive masterbatches is anticipated to sustain growth.

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