

Global Bio-based Emulsion Polymers Market Size study, by Material Composition (Acrylonitrile Butadiene Styrene, Ethylene Vinyl Acetate, Polyacrylic Acid, Polyamide), Application (Paints & Coatings, Adhesives, Textiles, Paper) and Regional Forecasts 2022-2032

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Abstracts

Global Bio-based Emulsion Polymers Market is valued approximately at USD 3.51 billion in 2023 and is anticipated to grow with an impressive CAGR of more than 7.9% over the forecast period 2024-2032. As industries worldwide pivot toward sustainable production and consumption, bio-based emulsion polymers are gaining significant traction as the future of green chemistry. Derived from renewable sources such as plant oils and biogenic monomers, these polymers serve as low-VOC, eco-friendly alternatives to conventional petroleum-based emulsions. Their applications span from paints & coatings to adhesives, textiles, and paper, offering functional parity with fossil-based polymers while dramatically improving the sustainability quotient across value chains.

The growing pressure from regulatory bodies to reduce volatile organic compounds and carbon emissions is playing a pivotal role in propelling the adoption of bio-based emulsion polymers across sectors. Additionally, major brand owners in the packaging, construction, and consumer goods industries are embracing these sustainable materials to fulfill their ESG goals and align with evolving consumer expectations. However, while market tailwinds are strong, challenges such as inconsistent raw material quality, compatibility with existing production equipment, and relatively higher costs are impeding full-scale commercial adoption, particularly in price-sensitive markets.



To counter these hurdles, market players are increasingly investing in feedstock diversification and bio-refinery technologies to enhance yield efficiency and raw material availability. There is also a marked shift toward optimizing polymer architecture via controlled polymerization and copolymerization techniques—tailoring properties such as adhesion strength, elasticity, and thermal resistance to specific industrial needs. Moreover, collaborations between chemical companies, biopolymer start-ups, and research institutions are accelerating the development of next-gen formulations that not only outperform traditional polymers but are also easier to integrate into existing industrial workflows.

Bio-based emulsion polymers are being widely adopted in paints and coatings due to their superior film-forming capability, water resistance, and eco-credentials—making them a go-to solution in green building projects and low-emission architectural coatings. The adhesives segment is also experiencing notable growth, especially in packaging and woodworking industries. Meanwhile, textile and paper industries are increasingly opting for bio-based emulsions for processes like surface finishing, lamination, and sizing—driven by the demand for biodegradable and non-toxic alternatives. As supply chains evolve and economies of scale kick in, these applications are expected to scale rapidly across geographies.

From a regional lens, Europe held the largest market share in 2023, driven by stringent sustainability policies under the European Green Deal and strong R&D funding in green materials. North America followed closely, with the U.S. leading in both innovation and end-user adoption, especially in construction and consumer packaging. The Asia Pacific region is poised to register the fastest growth during the forecast period, fueled by rapid industrialization, supportive government bioeconomy strategies, and expanding manufacturing bases in China, India, and Southeast Asia. Latin America and the Middle East & Africa are anticipated to see steady growth as global brands push sustainable sourcing requirements in emerging markets.

Major market player included in this report are:

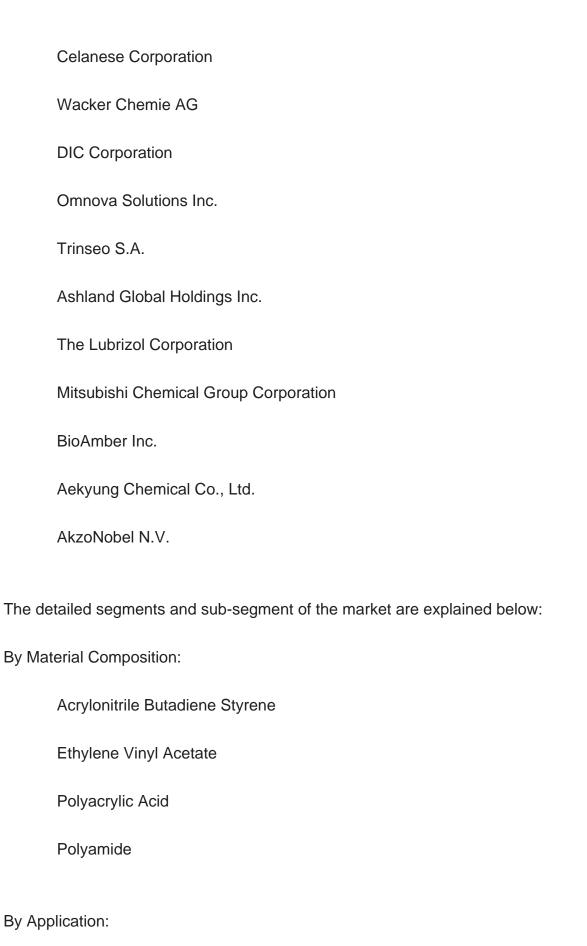
Dow Inc.

BASF SE

Arkema Group

Synthomer plc











	Japan
	Australia
	South Korea
	Rest of Asia Pacific
Latin America	
	Brazil
	Mexico
	Rest of Latin America
Middle East & Africa	
	Saudi Arabia
	South Africa
	Rest of Middle East & Africa
Years considered for the study are as follows:	
	Historical year – 2022
	Base year – 2023
	Forecast period – 2024 to 2032
Key Takeaways:	

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.



Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.



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... (Final report contains more than 100 tables)



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