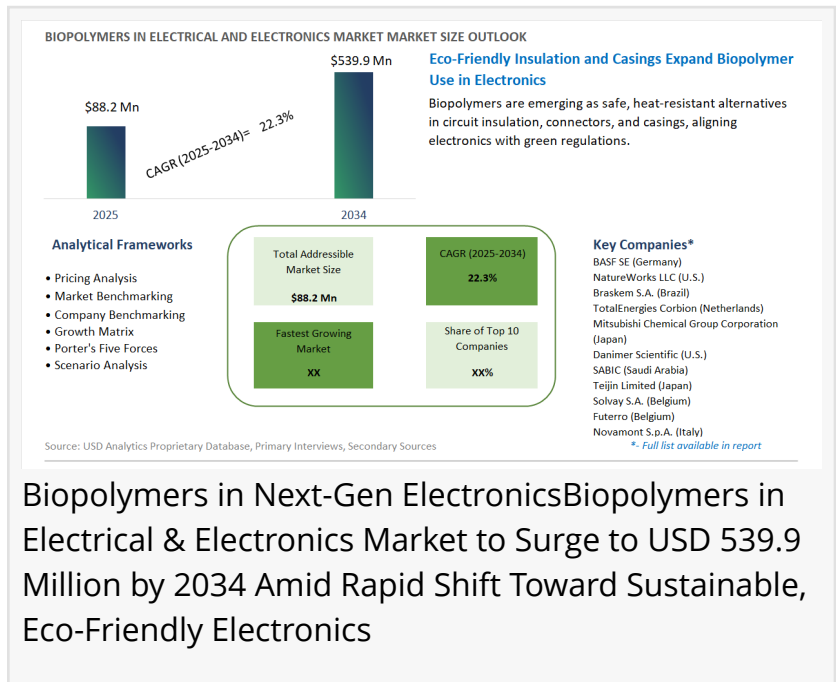


Biopolymers in Electrical & Electronics Market to Surpass \$539.9 Million by 2034 as Demand for Green Tech Grows

Biopolymers are revolutionizing wires, circuit boards, and electronics as brands and regulators accelerate the shift to eco-friendly materials.

HYDERABAD, TELENGANA, INDIA, July 22, 2025 /EINPresswire.com/ -- July 21, 2025 – The [Biopolymers in Electrical and Electronics Market](#) is set for explosive growth, projected to leap from USD 88.2 million in 2025 to USD 539.9 million by 2034, reflecting an extraordinary CAGR of 22.3%. This surge is fueled by the electronics industry's urgent drive for sustainable materials, global regulatory mandates, and booming consumer demand for eco-friendly electronics across segments from consumer gadgets to automotive, medical, and industrial devices.



Biopolymers in Next-Gen Electronics Biopolymers in Electrical & Electronics Market to Surge to USD 539.9 Million by 2034 Amid Rapid Shift Toward Sustainable, Eco-Friendly Electronics

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“

Biopolymers are driving the electronics industry toward sustainability without compromising on performance or innovation.”

Harry, USDAnalytics

Biopolymers Powering Next-Generation Electronics Sustainability

Biopolymer electronics are redefining the sustainability profile of modern devices by replacing petroleum-based plastics in wires and cables, electronic device casings, printed circuit boards (PCBs), electrical insulators, display panels, and even battery components. These sustainable materials deliver excellent performance while offering

lower carbon footprints and improved end-of-life outcomes.

Polylactic Acid (PLA) dominates the market for its rigidity and thermal stability—ideal for housings, insulation, and panel components—while Polyhydroxyalkanoates (PHA) are the

fastest-growing segment, valued for their flexibility and biodegradability. This opens the door for biopolymers in flexible electronics, next-gen PCB substrates, and sustainable insulation. Bio-based non-biodegradable polymers like Bio-PE, Bio-PET, and Bio-PA are gaining traction for their drop-in compatibility and robust electrical properties.

Key Opportunity: Global Brands Race to Reduce Electronics' Environmental Impact

The market's greatest opportunity is the mainstreaming of sustainable electronics by leading brands and OEMs. As consumers demand eco-friendly electronics, global electronics companies are integrating biopolymers to reduce their carbon footprints, comply with emerging sustainability regulations, and differentiate their product lines. This push is especially strong in consumer electronics, automotive electronics, medical devices, and smart industrial systems. Sustainable PCBs, biodegradable connectors, and bio-based display panels represent multi-billion-dollar innovation opportunities over the next decade.

Regional Dynamics: Japan, Europe, and the U.S. Lead Biopolymer Innovation

- Japan is at the forefront with companies like Mitsubishi Chemical Group Corporation (bio-based DURABIO™) and Toray Industries pioneering advanced bio-based films for smartphones, 5G PCBs, sensors, and EV batteries.
- Europe (notably Germany, Belgium, France, and Italy) drives regulation, R&D, and early adoption of biopolymers in electrical and electronics through leading firms and circular economy initiatives.
- United States is rapidly advancing with strong participation from global leaders, startups, and policy support for green manufacturing and electronics recycling.

Geographically, the detailed analysis of market share, and growth rate of the following regions:

- North America (US, Canada, Mexico)
- Europe (Germany, UK, France, Spain, Italy, Russia, Rest of Europe)
- Asia Pacific (China, India, Japan, South Korea, Australia, South East Asia, Rest of Asia)
- South America (Brazil, Argentina, Rest of South America)
- Middle East and Africa (Saudi Arabia, UAE, Rest of Middle East, South Africa, Egypt, Rest of Africa)

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Market Segmentation Overview

- By Biodegradable Biopolymers: PLA, PHA, PBAT, Others
- By Non-Biodegradable Biopolymers: Bio-PE, Bio-PET, Bio-PA, Others
- By Application: Wires & Cables, Electronic Device Casings, PCBs & Substrates, Electrical Insulators, Panel Displays, Batteries, Connectors & Sockets, Sensors & Actuators, Soldering Materials, Adhesives & Sealants, Others
- By End-Product Category: Consumer Electronics, IT & Telecom Equipment, Automotive Electronics, Industrial Electronics, Medical Electronics, Aerospace & Defense Electronics
- By Processing Technology: Injection Molding, Extrusion, Film & Sheet Extrusion, 3D Printing,

Dip Coating, Screen Printing, Lamination, Compounding

Competitive Landscape: Top Companies in Biopolymer Electronics

Industry leaders and technology innovators include:

- BASF SE (Germany)
- NatureWorks LLC (U.S.)
- Braskem S.A. (Brazil)
- TotalEnergies Corbion (Netherlands)
- Mitsubishi Chemical Group Corporation (Japan)
- Danimer Scientific (U.S.)
- SABIC (Saudi Arabia)
- Teijin Limited (Japan)
- Solvay S.A. (Belgium)
- Futerro (Belgium)
- Novamont S.p.A. (Italy)
- Arkema S.A. (France)
- Eastman Chemical Company (U.S.)
- Covestro AG (Germany)
- Others

These companies are investing in advanced compounding, bio-based processing, and partnerships with global electronics brands to commercialize high-performance, sustainable electronic materials.

Access the Complete report with in-depth data and forecasts: [Biopolymers in Electrical and Electronics Market, 2025–2034](#)

Thank you for reading this article. You can also get individual chapter-wise sections or region-specific report versions, such as North America, Europe, LATAM, or Southeast Asia, as well as country-level customizations.

USDAnalytics

This research is powered by USDAnalytics, a leading intelligence platform for sustainable materials, electronics industry innovation, and green technology policy tracking. USDAnalytics provides up-to-date market data, regulatory insights, and benchmarking tools to support R&D teams, OEMs, and policymakers accelerating the global transition to eco-friendly electronics. Discover more at www.usdanalytics.com.

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