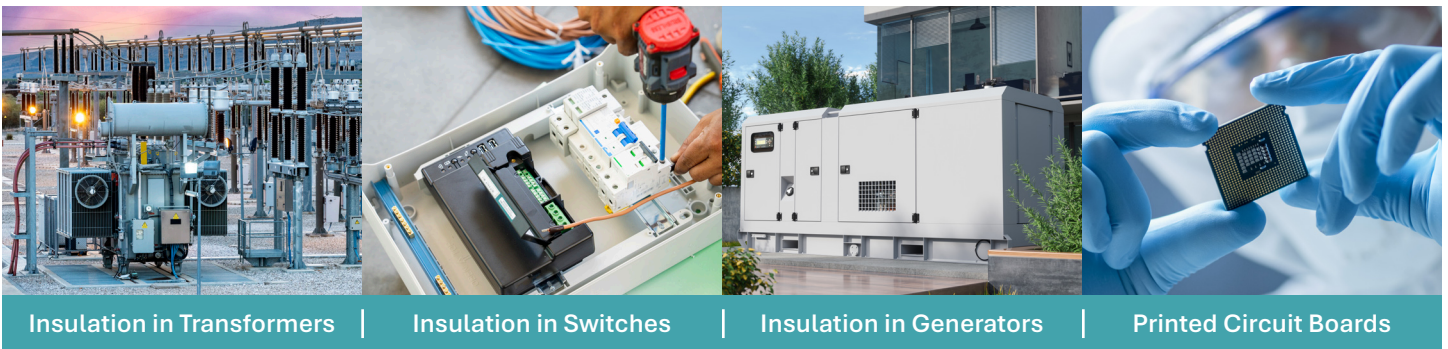


Powering Modern Electronics with Epoxy Resins

In today’s fast-paced digital world, the materials behind our electronics are just as critical as the technology itself. Epoxy resins — a material made using the building-block chemistry bisphenol A (BPA) — play an essential role in enhancing the performance, safety, and durability of electronic devices.

Epoxy resins are a major contributor to the electronics and electrical industry, which accounted for \$27 million in shipments, 170,100 jobs and \$39 billion in payroll to the overall U.S. Economy, according to September 2024 data from ACC’s Economics and Data Analytics Department, the Bureau of Labor Statistics, and Census.

Common Applications



Insulation in Transformers

Insulation in Switches

Insulation in Generators

Printed Circuit Boards

Benefits

- 1** **Great Insulator:** Helps keep electricity flowing where it should

5 **Blocks Moisture:** Helps prevent rust and corrosion
- 2** **Heat Resistant:** Handles high temperatures without breaking down

6 **Customizable:** Can be made flexible, rigid, or heat-conductive
- 3** **Strong & Durable:** Adds toughness and protects against bumps and vibrations

7 **Fire-Safe Options:** Some types resist flames
- 4** **Sticks Well:** Bonds tightly to metals, plastics, and more

8 **Supports Small Tech:** Helps protect tiny components in compact devices