

Powering Modern Electronics with Polycarbonate Plastics

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

Polycarbonate plastics 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 & Data Analytics Department, the Bureau of Labor Statistics, and Census.

Common Applications



Benefits

- 1 Durable:** High impact resistance protects devices
- 2 Heat Resistant:** Performs well under high temperatures
- 3 Insulating:** Excellent electrical insulation
- 4 Lightweight:** Reduces device weight
- 5 Transparent:** Useful for screens and covers
- 6 Flame-retardant:** Available in fire-safe grades
- 7 Moldable:** Supports complex, compact designs
- 8 Stable:** Maintains shape under stress
- 9 Recyclable:** Supports sustainable manufacturing