

Plastic in Action

Infrastructure & Construction

Plastic materials strengthen the backbone of modern infrastructure—making buildings more durable, energy-efficient, and cost-effective. From reinforcing concrete and improving insulation to providing safer water systems and electrical components, plastics deliver reliable, high-performance solutions for builders and homeowners alike.



Polypropylene fibers can increase concrete's flexural strength by up to 50%, enhancing crack resistance and long-term durability.



PVC and CPVC piping provide safe, affordable, and energy-efficient alternatives to lead and copper, performing reliably under extreme temperatures.



Plastic foam insulation helps regulate indoor temperature, reduce energy use, and lower utility costs while improving overall comfort.



Electrical systems rely on plastic for wire coatings, switch boxes, and outlet covers—ensuring safe, dependable power throughout homes and businesses.

Plastic strengthens the backbone of modern infrastructure.

More than one million Americans work in jobs directly or indirectly connected to the plastics industry, spanning a wide range of sectors. From the engineers who design the machinery that manufactures essential plastic products, to the material suppliers distributing raw plastics, to the processors shaping materials into goods, and the recyclers giving used plastic a second life, the plastics supply chain is a vital aspect within both the U.S. and global economy.