

CORRUGATED PACKAGING VS. REUSABLE PLASTIC CONTAINERS



Independent scientific study demonstrates corrugated packaging significantly outperforms reusable plastic containers in climate impact, energy efficiency, and supply chain performance—delivering both environmental and business advantages.

SUPERIOR CLIMATE & ENERGY PERFORMANCE

Corrugated packaging outperforms RPCs with 57 to 110 percent better performance in the areas that matter most:

57%

Respiratory Effects



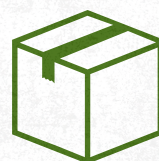
69%

Greenhouse Gas Emissions



110%

Non-Renewable Energy Use



These advantages align directly with top retailer sustainability priorities identified in 2023 Deloitte research:

Reducing Greenhouse Gas Emissions



Using Sustainable Materials



Minimizing Energy Consumption.



RPCS
UP TO 4X
HEAVIER
VS. CORRUGATED

SUPPLY CHAIN AND COST EFFICIENCIES

Container weight drives both environmental impact and business costs. Key advantages:



Lighter corrugated reduces freight costs and transportation emission



Local sourcing enables shorter supply chains



More products per truckload improves logistics efficiency

RECYCLING AND CIRCULAR ECONOMY LEADERSHIP



The recycling performance difference is dramatic:

69-74%

Corrugated Recycling Rate:

8%

Polypropylene Plastic (RPC) Recycling Rate



Corrugated Fibers

Will Be Reused 7-10X

In New Products



PROVEN INDUSTRY PROGRESS

Source: 2020 Corrugated Industry LCA

The corrugated industry demonstrates measurable environmental improvements from 2006 to 2020:

13%

Reduction in: Ozone Depletion



18%

Reduction in: Water Use



41%

Reduction in: Acidification



44%

Reduction in: Smog Formation



STUDY CREDIBILITY

Independent research:

Conducted by Anthesis Group

Scientific rigor:

Adheres to ISO 14040/14044 international standards for life cycle assessment

External validation:

Independent peer review confirms the study meets requirements for public environmental claims