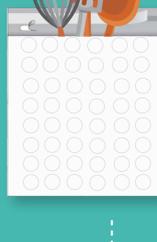


Which is REALLY the more environmentally and cost efficient packaging option?

Corrugated Box



Poly Bubble Mailer



VS

RECYCLABLE

Municipal curbside bins will accept corrugated boxes



over 20,000 grocery stores participate in the store-drop off program where you can recycle your poly bubble mailers

It requires **91% less energy** to recycle a pound of plastic than a pound paper

PROTECTIVE



Product that is damaged during transit needs to be replaced, requiring 2 more shipments- (one for returning the item and one to replace the item) the returned item is often discarded resulting in more waste.



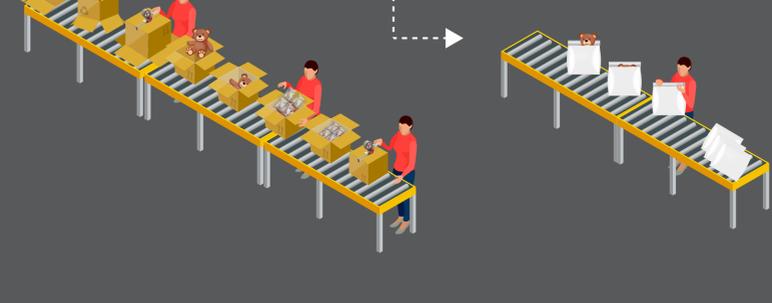
This causes a much larger impact on the environment than the packaging itself.



Poly bubble mailers are **water resistant**

EFFICIENT

Poly bubble mailers increase fulfillment speed and decrease labor costs



REDUCES IMPACT

Downgauging your packaging

Reduces Impact on Costs



Right sized, lighter weight packaging decreases DIM weight costs

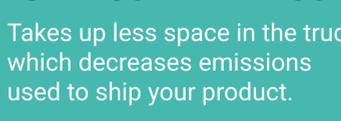


Less packaging costs less

Reduces Environmental Impact



Less packaging less environmental impact



Takes up less space in the truck which decreases emissions used to ship your product.

REDUCES FOOTPRINT

The production of corrugated boxes leaves a significantly larger environmental footprint than the production of poly bubble mailers



14" x 20" x 3" Corrugated Box
10,000 Corrugate Boxes (.7 lb each)

14.25" x 19.25" Poly Bubble Mailer
10,000 Polyethylene Bubble Mailers (.1 lb each)



Wood Used: 20.1 tons (**121 Trees**)

Fossil Fuel Used: 149 kg (***1 barrel oil**)



*the natural gas equivalent of 1 barrel of oil

Total Energy: **131 Million BTUs**

Total Energy: **7 Million BTUs**

Greenhouse Gas: **84,600 lbs CO2**

Greenhouse Gas: **800 lbs CO2**

Water Usage: **87,700 gallons**

Water Usage: **580 gallons**

Solid Waste: **2,050 lbs**

Solid Waste: **154 lbs**

Corrugated Boxes use



19 times more energy



106 times more CO2



152 times more water



13 times more solid waste

Than Poly Bubble Mailers

REDUCE

REUSE

RECYCLE

RETHINK

Ecommerce companies can reduce carbon emissions by giving up the corrugated box in favor of lightweight, less wasteful, poly bubble mailers.

Recycling labels and instructions can be printed on these mailers to educate the public on the importance of properly recycling or reusing plastics, so they don't end up in our oceans.

SOURCES:

- <https://c.environmentalpaper.org/individual.html>
- <https://plastics.americanchemistry.com/Life-Cycle-Assessment-for-Three-Types-of-Grocery-Bags.pdf>
- <https://science.howstuffworks.com/environmental/green-science/paper-plastic1.htm>