

LIFE CYCLE ANALYSIS



BAG-IN-BOX TO POUCH

ANALYSIS

Life Cycle Analysis of a plastic bag in a cardboard box versus a mono-material, flexible pouch.

	PLASTIC BAG IN CARDBOARD BOX	HARMONYPACK POUCH
Water	267,337 m3*	165,694 m3
Total Green House Gas Emissions	767 tons	314 tons

Results are based on 2M units

*m3 world-equivalent: normalized unit used to compare water use in different regions given different amounts of water available per region. The water availability in a region will influence the water results in an LCA regardless of the specific amount of water used in the lifecycle studied. This takes the ecosystem into account as the results reflect a larger water impact on regions where water is scarce.

WHAT DOES THIS MEAN?

Shifting to a HarmonyPack pouch versus a plastic bag in a cardboard box is a:

59% reduction in Green House Gas emissions.



This is the equivalent of driving between British Columbia and Newfoundland **106** times in one year.



The switch to flexible packaging is also a

38% reduction in water use.

This is equal to **13** Olympic sized swimming pools of **water**.

2024 Tempo Flexible Packaging. Detailed analysis available upon request.

The COMPASS report uses lifecycle inventory data that represents an industry average for materials, manufacturing process and end of life impacts. The lifecycle analysis in this report can be used for directional guidance for internal decision-making and understanding trade-offs. Compass follows the guidelines of ISO 14040 in determining and documenting the scope, assumptions, consistent boundary conditions and data sources.