

Boardio® and sustainability

Renewable, sustainable, certified

Boardio® mainly consists of renewable bleached virgin fibers that originate from sustainably managed forests. Certifications available include the industry leading standards.



A highly recyclable packaging solution

Boardio® is recyclable in the well-established paper waste recycling stream. Around 70% of all paper and paperboard packaging is recycled in the US¹, with a slightly lower figure (66%) in Canada².

Boardio® does not use binders, UV coatings, adhesive labels or tapes or 'stickies' – all of which can reduce the quality of the material coming from recycling.

The Boardio® pack has already passed the first step of recycling certification at Western Michigan University and stage 2 tests are planned in the coming months. Loss during repulping is only 2% and with easy separation from the PE and aluminum there is no detrimental effects on recycled fiber quality. The 100% bleached Scandinavian virgin fiber is an excellent source for recycling.

¹ https://www.fpac.ca/wp-content/uploads/FPAC_Environmental_Brochure.pdf

² <https://www.paperrecycles.org/statistics/paper-paperboard-recovery>



Optimization of logistics

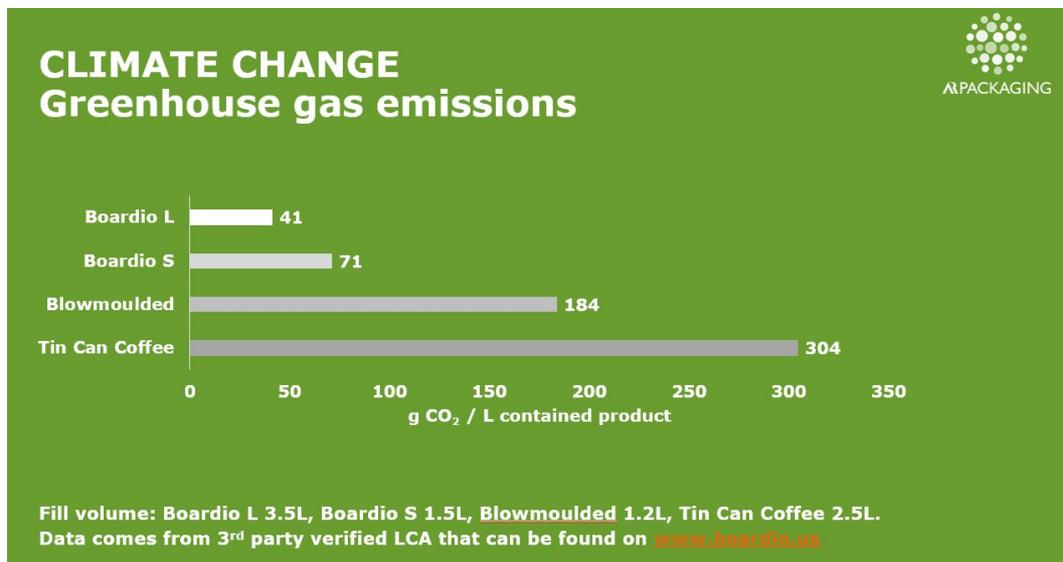
Boardio® means optimized logistics because all components are delivered flat to the customer, as opposed to transporting massive amounts of air in product-ready packaging such as cans. This can mean an 85% cut in packaging transportation needs, which drives down costs and improves the CO₂/GHG emissions profile even further.

Overall CO₂ performance of Boardio®

The overall CO₂ emissions relating to Boardio® are very low compared to competing packaging solutions. Sourcing fiber from sustainably managed forests ensures that these forests continue to absorb CO₂ from the air, while high recycling rates for paperboard packaging improve the CO₂ performance even more.

A 3rd party reviewed Life Cycle Analysis show a 60-75% reduction of CO₂-emissions of over blowmolded plastics and tin cans.

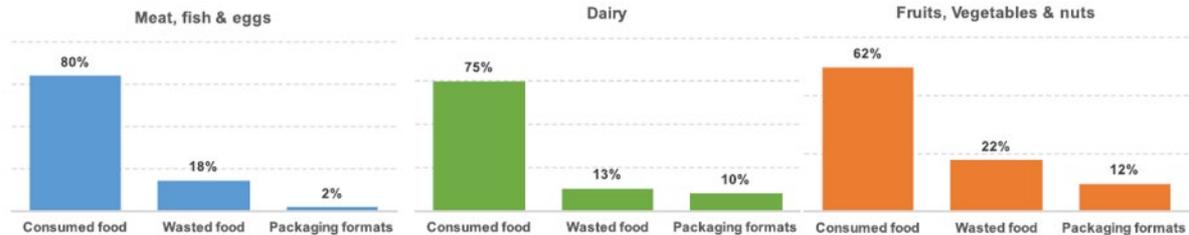
Other environmental, human health and social impacts are also reduced – such as resource and land use, acidification and eutrophication of water.



Food rather than packaging drive CO₂ emissions

The barrier-related benefits of Boardio® such as a long shelf-life help reduce food waste. Packaging in general typically represents 2-12% of the overall greenhouse-gas (GHG) impact of a packaged food product³ [see chart]. The right kind of barrier packaging can reduce both food waste and the overall GHG impact.

GHG RATIO BETWEEN DIFFERENT FOOD CATEGORIES AND PACKAGING



³ Wikström et. Al, 2018

A longer shelf-life also improves food security, ensuring consumer access to quality food products even if food supply chains are disrupted for any reason. Without proper barrier packaging, those disruptions could mean vast amounts of food would degrade on its way from farm to fork.

Excellent barrier

Boardio® includes a PE layer and a razor thin [0.00025 inch] aluminum barrier, which is necessary in order to ensure excellent gas tightness, product protection and shelf-life. The chart below highlights the unrivalled oxygen and moisture barrier properties of aluminum.

