

Duni Group product carbon footprint calculator

Duni Group has created a CO2 calculator for food packaging products in order to develop credible carbon footprints for internal and external communications. The carbon footprint has been designed to be relevant in a European context.

Methodology

Duni has selected international standards to follow when developing the CO2 calculator. Both primary and secondary data has been used in order to include all life-cycle stages. The following table highlights the methodological choices used in the carbon footprint tool.

Functional unit:	Per one product (gCO2e/pc)
Selected standards:	ISO 14040/14044 & ISO 14067
System boundary:	Cradle-Grave
Impact methodology:	IPCC 2021 GWP
End-of-life methodology:	Cut-off approach

Life cycle inventory:

The life-cycle inventory consists of 4 stages: raw materials, converting, upstream transport and end-of-life. Following activities are included in the calculations:

- Raw material production for products, secondary and tertiary packaging materials.
- Converting of all product and packaging materials
- Upstream transport
- End-of-life (based on average European waste handling statistics).

Both biogenic and land-use-change emissions are included in the final carbon footprint of a product.