LESS PACKAGING.
MORE RESPONSIBILITY.

SUSTAINABILITY WITH SYSTEM.

With clip packaging, manufacturers significantly reduce material usage and CO_2 emissions while maintaining the quality of their products. Every package contributes to more efficient processes and helps companies take responsibility for the environment and natural resources.

Poly-clip System provides solutions that are efficient, resource-saving, and forward-looking. This makes packaging an instrument for sustainable action and innovation across all industries.

Poly-clip System
The packaging company with less packaging

Efficient & Sustainable

Innovative & Future-oriented

INDEPENDENT
SUSTAINABILITY STUDY

All CO_2 values and material proportions are based on a holistic sustainability assessment of end packaging, conducted by the independent institute Circular Analytics, Vienna.

The study was commissioned by Poly-clip System GmbH & Co. KG. The assessment was based on production and disposal assumed to take place in Germany.

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OUR PACKAGING SOLUTIONS:

SUSTAINABLE. EFFICIENT. FUTURE-ORIENTED.

Taking responsibility means creating added value with every solution – for customers, the environment, and future generations. Our clip-packaging solutions measurably reduce material usage and CO_2 emissions without compromising product protection, safety, or quality.

Compared to conventional packaging such as cans, cartridges, or thermoformed trays, our solutions **reduce CO_2 emissions by up to 90 %** and require **only 1–2 % packaging material**, whereas alternatives can reach up to 35%. This conserves resources and optimizes storage capacity.

Our solutions can be used across a wide range of industries: from pet food, sausage products, and dairy items to ready meals, adhesives, and even fruit and vegetables. They stand for maximum efficiency with a minimal ecological footprint and enable sustainable business practices along the entire value chain.

less CO_2 emissions

lower material usage

technical recyclability

Minced meat – less emission, more efficiency

EPS trays dominate the retail sector but have a significant climate impact. Clip-packaging generates up to ten times less CO_2 and requires only 0.9 % packaging material. The lower weight benefits both economic efficiency and the environment.

clip-pak®

CO_2 18,47 g
0,89 %
93,54 %

Flowpack

CO_2 30,1 g
1,52 %
89,67 %

EPS tray
with top film

CO_2 192,8 g
5,7 %
0,0 %

EPS tray
with top film black

CO_2 145,4 g
5,7 %
0,0 %

CO_2 CO_2 emissions (in g)

Packaging efficiency (in %)

Technical recyclability (in %)

clip-pak®

CO_2	13,01 g
	1,58 %
	93,44 %

Thermoformed tray

with snap-on lid and film

CO_2	79,7 g
	8,46 %
	60,8 %

Spreadable sausage – efficiently packaged, sustainably designed

Thermoformed trays are widely used in the processed meat sector, but they cause high CO_2 emissions and require large amounts of material.

With clip-packaging, greenhouse gas emissions are reduced by a factor of six, and material usage drops to just 1.6%. Extrapolated to the German market, this corresponds to annual savings of 22,133 tonnes of CO_2 for sliced sausages and 4,427 tonnes of CO_2 for spreadable sausages.[1]

[1] Fraunhofer UMSICHT, Study commissioned by Poly-clip System, 2019

Sliced sausage – significantly lower CO_2

Thermoformed trays with top film cause considerably higher CO_2 emissions than our clip-packaging solutions. With clip-pak®, manufacturers can reduce CO_2 emissions by around 50 % compared to conventional packaging. At the same time, the material share of clip-packaging is just 1.58 %. This packaging efficiency means reduced material consumption, lower transport weight, and a truly sustainable solution all around.

clip-pak®

CO_2	9,74 g
	1,58 %
	93,44 %

Thermoformed tray

with top film

CO_2	17,42 g
	3,88 %
	91,52 %

Thermoformed tray

Combined packaging process

CO_2	22,66 g
	5,36 %
	- %

net-pak®

CO_2	26,5 g
	0,49 %
	0,0 %

Plastic film

CO_2	31,4 g
	0,82 %
	99,03 %

Plastic tray

with top film

CO_2	35,3 g
	3,18 %
	99,76 %

Fruit & vegetables – naturally protected, sustainably packaged

Even in the fresh produce segment, packaging efficiency plays a crucial role. Clip-packaging reduces CO_2 emissions by up to 25 % while using only 0.5 % packaging material. Products stay fresh, transport is lighter and sustainability becomes visible.

CO_2 CO_2 emissions (in g)

Packaging efficiency (in %)

Technical recyclability (in %)

Dairy products – light, safe, resource-efficient

For products such as herb butter, cream cheese, or dessert preparations, clip-packaging offers a climate-friendly alternative to traditional tubes or thermoformed trays. It reduces CO_2 emissions by a factor of 13 and use only 1.3 % packaging material, while plastic tubes require up to 13.7 %. This makes Poly-clip a measurable contributor to resource conservation.

clip-pak®

6,74 g
1,31 %
90,22 %

Thermoformed plastic tray

26,8 g
5,23 %
97,0 %

Composite film
(portion pack)

3,5 g
1,11 %
35,24 %

Plastic tube

91 g
13,7 %
52,67 %

Ready meals – sustainable enjoyment

Ready meals are popular, but glass jars, cans, and cups add weight, energy consumption, and high material usage. Clip-packaging reduces the CO_2 footprint by a factor of 17 and requires less than 1 % packaging material. A solution that makes modern convenience products more sustainable — from production to consumption.

clip-pak®

18,47 g
0,89 %
93,54 %

Glass jar
with aluminum lid

306,4 g
34,83 %
99,18 %

Tinplate can

228,5 g
11,09 %
92,12 %

Plastic cup

72,8 g
3,84 %
73,14 %

CO_2 emissions (in g)
Packaging efficiency (in %)
Technical recyclability (in %)

Pet food – sustainability down to the last detail

Whether wet food or pasty snacks, clip-packaging reduces CO_2 emissions by a factor of 15 compared to multilayer packaging. With only 2 % packaging material, up to 90 % less material is required. The result: lower energy consumption, reduced transport weight, and a fully efficient packaging solution.

clip-pak®

CO_2 32,14 g
1,94 %
93,13 %

Multilayer composite

CO_2 494,84 g
18,9 %
12,72 %

Aluminum tray

CO_2 170 g
5,47 %
82,29 %

Tinplate can

CO_2 228,5 g
11,09 %
92,12 %

Sealants & adhesives – efficient packaging for industry and trade

In the construction, chemical, and craft industries, cartridges and tubes are the standard – yet heavy and energy-intensive. With clip-pak®, packaging becomes significantly more efficient: 23 times less CO_2 compared to conventional plastic, and only 0.8 % packaging material. This saves resources while ensuring high functionality during processing. Our clip-tube® ideally complements these solutions – offering easy handling, versatile applications, and smoother processing, especially where flexibility and user-friendliness are key.

clip-pak®

CO_2 18,84 g
0,8 %
92,16 %

Plastic cartridge

CO_2 426,1 g
14,99 %
94,73 %

clip-tube®

CO_2 40,57 g
11%
99,65 %

Plastic tube

CO_2 49,72 g
11,9 %
97,37 %

Aluminum tube

CO_2 78,3 g
15,25 %
77,12 %

CO_2 CO_2 emissions (in g)

Packaging efficiency (in %)

Technical recyclability (in %)