

PaperFoam®

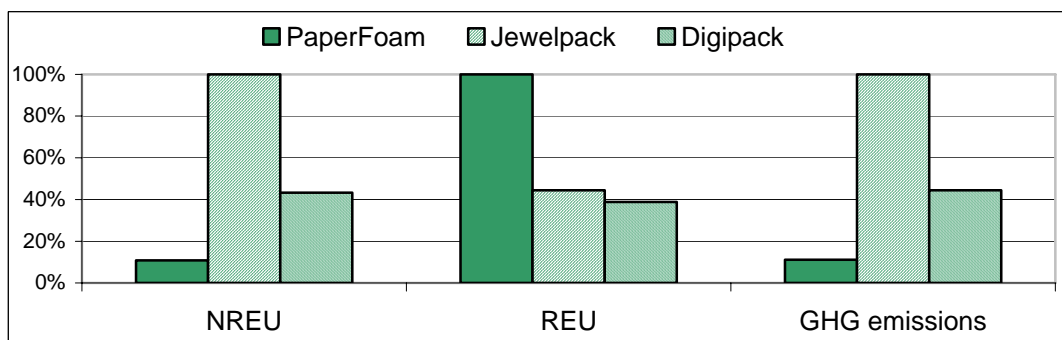
PaperFoam® is an environmentally friendly packaging material derived from renewable resources. It can be recycled as paper or composted to biodegrade. PaperFoam® is produced from starch, cellulose and water.

LCA, RUU/Copernicus Institute

The Utrecht University/Copernicus Institute executed a shortcut-LCA (Life cycle assessment) study to analyse the NREU (non-renewable use of energy), REU (renewable use of energy) and GHG (greenhouse gas) emissions of a PaperFoam CD-case. The comparative environmental assessment studies also the Jewelpack and the Digipack. In all cases the study is from cradle-to-factory gate and the Ecoinvent database is used.

NREU, REU, GHG emissions

Design & Materials	<ul style="list-style-type: none"> PaperFoam: PaperFoam CD-tray and cardboard Jewelpack: Polystyrene Digipack: Polystyrene and cardboard
NREU	<ul style="list-style-type: none"> PaperFoam: 0.83 MJ / CD-case Jewelpack: 7.67 MJ / CD-case Digipack: 3.32 MJ / CD-case
REU	<ul style="list-style-type: none"> PaperFoam: 0.36 MJ / CD-case Jewelpack: 0.16 MJ / CD-case Digipack: 0.14 MJ / CD-case
GHG emissions	<ul style="list-style-type: none"> PaperFoam: 0.03 kg CO₂-eq / CD-case Jewelpack: 0.27 kg CO₂-eq / CD-case Digipack: 0.12 kg CO₂-eq / CD-case



Conclusions RUU/Copernicus Institute: "The comparative environmental assessment shows that PaperFoam® is by far the preferred choice in terms of NREU and GHG emissions. The NREU of the PaperFoam® case is about 1/10 compared to the Jewelpack and about 1/3 compared to the Digipack. The GHG emissions of the PaperFoam® case are about 85-90% lower compared to the Jewelpack and 55-75% lower than for the Digipack."

Recycling PaperFoam®

Compostability	Fully compostable according to DIN V 54900 and CEN EN 13432 PaperFoam material is DIN Certco Certified under Registration No.: 7W0029
Recycling	PaperFoam can be recycled with paper according to Duales System Deutschland (DSD)

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