

Co2 LCA Report

for lostboyslab & Industry Additive Manufacturing & material process ONLY

On demand additive manufacturing is best suited when using local recycled materials and produced locally for local needs. No transports, massproduction, warehousing or distribution to multiple supply chains.

Production nr **PART1686**
customer art nr
Part Name **Paper Plane Vase**
Client nr **0001**
Client name **Style collection home**



Location:
Hästkogatan
Malmö Sweden



Energy type
Hydro

Amount of Co2
4,33

grams of Co2/kwH

Supplier

Vattenfall

Country

Sweden

GWl Carbon footprint LCA for the Manufacturing and material production process.

Material (Pellets or Filament production)

Material Footprint **2725,80** gram Co2

Material **3d Ocean S50** **R-PP 15WF**

Additive Manufacturing process

Power consumed per part **16,500** kW

Manufacturing Footprint **71,45** gram Co2

The average passenger car emits 300 gram of CO2 per mile (1.6 km)

if you consume a litre of milk a day, that's 527 000 gram CO2 per year, or the same as a flight from London to Madrid.

Using toilet tissue made from virgin (nonrecycled) paper for 1 year (based on US habits) 75 000 gram/year

Additive Manufacturing Carbon Footprint

2 797 gram Co2 per part

A carbon footprint is the total greenhouse gas (GHG) emissions caused directly and indirectly by an individual, organization, event or product."1 It is calculated by summing the emissions resulting from every stage of a product or service's lifetime (material production, manufacturing, use, and end-of-life). This calculation ONLY refers to the manufacturing process also known as Additive manufacturing. It does not include any activities before or after and not the process of recycling the raw material process that is used as granules or filament.