

PRODUCT CARBON FOOTPRINT

according to ISO 14067, ISO 14040 and ISO 14044

PVC COMPOUNDS

INEOS
Compounds



PCF holder:
INEOS Compounds Aycliffe Ltd
School Aycliffe Lane
DL5 6EA Newton Aycliffe
www.ineos.com

Life cycle assessor: PeoplePlanetProfit GmbH
Preparation date: 20.06.2023
Note: The LCA was calculated with the software
Umberto LCA +. The method of preparation can be
requested.

Validity period: 20.06.2028
Note on validity: These
manufacturer-specific balances are
valid for five years from the date of
preparation.

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Summary

PCF holder

INEOS Compounds Sweden AB
Gevärgatan 4
254 66 Helsingborg
www.ineos.com

Life cycle assessor

PeoplePlanetProfit GmbH
Kapuzinerstraße 8
88212 Ravensburg

Designation

PVC compound
NORVINYL GA.87.12.PJ.21006.1

Description and definition of the product

Description: Flexible PVC extrusion compound
Color: Yellow
Application: Profiles for indoor use, low carbon footprint
Shape: Pellets

General Properties	Test method	Units	Value
Density	EN ISO 1183-1A	kg/m ³	1340
Hardness (15 sec, 23°C)	EN ISO 686	Shore D	88
Thermal stability (200°C)	EN ISO 182-1	min	25

Document number

-

Preparation date

22.09.2023

Validity period

22.09.2028

Objective

This balance is intended to report the Product Carbon Footprint of PVC compounds from INEOS Compounds (cradle to gate).

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Method and Notes

The method for the preparation of the PCF can be requested.

These manufacturer-specific balances are valid for five years from the date of preparation.

A comparison of the PCF values is possible in principle, but not recommended, as assumptions in the report, models and the balancing software can differ from each other.

The LCA was calculated with the software Umberto LCA + on the basis of ISO 14067, ISO 14040 and ISO 14044.

The method is documented in a background report. The LCA study includes the definition of the objective and the scope of the study, the life cycle inventory, the impact assessment and the interpretation.

Considered life cycle

In the PCF, the manufacturing phase was taken into account (cradle to gate).

Data base

The LCA data was collected by the INEOS Compounds Sweden AB and reviewed by PPP.

Level of data quality

Geographical representativeness	Technical representativeness	Temporal representativeness
Medium	Good	Good

System boundaries

The system boundaries refer to the site in Helsingborg, Sweden. Outsourced processes were not present.

Functional / declared unit

The declared unit is 1 kg PVC compound.

The functional unit is as follows:

Product	Density
NORVINYL GA.87.12.PJ.21006.1	1340 kg/m ³

Information modules

The following information modules or life cycle phases were considered were considered:

- Production A1 - A3

Interpretation of results

In the case of the NORVINYL GA.87.12.PJ.21006.1, the environmental impact is mainly due to the use of additives. The bio-attributed PVC and other additives and pigments play a more subordinate role.

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The transport of the intermediate products also have a moderate impact on the environmental impact of the products.

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Product carbon footprint over the life cycle of PVC compounds

Manufacturing phase			Construction phase		Use phase						Disposal phase				
Provision of raw materials	Transport	Production	Installation	Transport	Use	Inspection/maintenance/cleaning	Repair	Exchange/replacement	Operational energy use	Operational water use	Dismantling	Transport	Waste management	Landfill	Recycling potential
X	X	X													

PCF – Product Carbon Footprint (ISO 14067)

ND: Not declared

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NORVINYL GA.87.12.PJ.21006.1	Unit	Production A1 – A3	Transport A4	Installation/assembly A5	Usage B1	Inspection/Maintenance/ Cleaning B2	Repair B3	Replacement/Replacement B4	Improvement/Modernization B5	Operational energy use B6	Operational water use B7	Dismantling/demolition C1	Transport C2	Waste treatment C3	Elimination C4	Recycling potential D
PCF total	kg CO2 e	2.23E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF fossil	kg CO2 e	1.88E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF biogenic	kg CO2 e	6.41E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF land use	kg CO2 e	2.85E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF Aviation	kg CO2 e	9.95E-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Packaging	Unit	Production A1 – A3	Transport A4	Installation/assembly A5	Usage B1	Inspection/Maintenance/ Cleaning B2	Repair B3	Replacement/Replacement B4	Improvement/Modernization B5	Operational energy use B6	Operational water use B7	Dismantling/demolition C1	Transport C2	Waste treatment C3	Elimination C4	Recycling potential D
PCF total	kg CO2 e	-5.24E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF fossil	kg CO2 e	1.44E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF biogenic	kg CO2 e	-1.99E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF land use	kg CO2 e	2.31E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCF Aviation	kg CO2 e	3.02E-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND