

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

V TAPE 01 SORT
Melbye As



EPD HUB, HUB-4412

Published on 23.11.2025, last updated on 23.11.2025, valid until 23.11.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Melbye As
Address	Prost Stabels Vei 22, 2019 Skedsmokorset, Norway
Contact details	kontakt@melbye.no
Website	https://melbye.no

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Manufactured product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Aditya Dharmendra Nishad
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification
EPD verifier	Magaly Gonzalez Vazquez as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	V TAPE 01 SORT
Additional labels	See appendix
Product reference	V TAPE 01 SORT, V TAPE 01 HVIT, V TAPE 01 RØD, V TAPE 01 BLÅ, V TAPE 01 KLAR, V TAPE 01 GUL/GRØNN, V TAPE 01 HVIT, V TAPE 03 SORT
Place(s) of raw material origin	China
Place of production	Jinxia Village, Chang'an Town, Dongguan City, Guangdong Province, China
Place(s) of installation and use	Norway and Sweden
Period for data	1st January 2023 - 31st December 2023
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	46.4

Specific data represent more than 90% of all inputs in Modules A1–A3, ensuring high representativeness and data quality

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ²
Declared unit mass	0.08 kg
Mass of packaging	kg
GWP-fossil, A1-A3 (kgCO ₂ e)	0.5
GWP-total, A1-A3 (kgCO ₂ e)	0.48
Secondary material, inputs (%)	1.53
Secondary material, outputs (%)	33.8
Total energy use, A1-A3 (kWh)	1.84
Net freshwater use, A1-A3 (m ³)	0

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Melbye As is one of Norway's oldest family-owned companies, with a history dating all the way back to 1907. We have a proud tradition of technical innovation and trade, and today, we are a leading provider of forward-thinking products and system solutions for critical infrastructure. We have expertise in transmission and utilities, fiber, ducts and chambers and safety. We serve customers throughout the Nordic region and the United Kingdom, engage with stakeholders across Europe, and collaborate with around 200 partners and suppliers.

While our headquarters are located just outside Oslo, Norway, we also have offices at multiple locations in Norway, Sweden, and the United Kingdom, as well as representatives in Finland, India and China.

Together, we are more than 120 co-workers who share the company's core values: Innovation, teamwork, and professionalism.

With advanced expertise spread across our core areas and a dedication to long-term operation and future-oriented development, we stand at the forefront of addressing future challenges. We take pride in contributing to the development of critical infrastructure that will shape tomorrow's society.

PRODUCT DESCRIPTION

This Environmental Product Declaration (EPD) specifically covers V TAPE 01 SORT, a single variant of the V Tape 01 product range. No averaging of multiple products has been performed; the environmental impact results presented in this EPD are based solely on this specific product.

V TAPE 01 SORT is a high-performance, all-weather PVC electrical insulation tape designed for reliable performance in both industrial and household electrical applications. It consists of a flexible polyvinyl chloride (PVC) backing combined with a pressure-sensitive rubber-based adhesive, ensuring excellent flexibility, adhesion, and durability across a wide temperature range.

The product provides effective electrical insulation and mechanical protection for cables and conductors, offering high resistance to moisture, abrasion, UV light, acids, and alkalis, making it suitable for both indoor and outdoor installations.

This EPD covers the following product range:

V TAPE 01 SORT,
V TAPE 01 HVIT,
V TAPE 01 RØD,
V TAPE 01 BLÅ,
V TAPE 01 KLAR,

V TAPE 01 GUL/GRØNN,
V TAPE 01 HVIT,
V TAPE 03 SORT

No averaging of multiple products has been performed, and the environmental impacts presented here refer exclusively to V TAPE 01 SORT

Further information can be found at: <https://melbye.no>

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	-	-
Minerals	100	China
Fossil materials	-	-
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	0.0054545

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ²
Mass per declared unit	0.08 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = ND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A location-based approach is used in modelling the electricity mix utilized in the factory.

Actual transport distances provided by the supplier are used for all raw materials, packaging, and ancillary materials. Production losses are assumed at 1%. All manufacturing processes are performed in-house at a single facility. The facility operates on grid electricity and conventional energy sources. Products are packaged in corrugated boxes placed on wooden pallets, both sourced externally. Manufacturing waste ($\approx 1\%$ of input) is sent for recycling and landfill; end-of-life treatment assumes 34% recycling, 41% incineration and 25% landfill, transported 50 km by truck.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

A4 – Transportation to Construction Site:

Transportation impacts include direct fuel combustion, fuel production, and infrastructure emissions. PVC tapes are primarily distributed in Norway and Sweden. The average shipping distance, including transport from port to customer, is assumed to be 100 km by lorry (>32 t, EURO 5).

A5 – Installation Phase:

No material loss occurs during installation. The tape is manually applied to surfaces such as cables or joints. A standard installation energy consumption of 0.01 kWh/kg is considered.

A5 – Packaging Waste Management:

Packaging waste mainly consists of cardboard and plastic film. Based on typical Scandinavian waste treatment practices (reference: Eurostat 2023, national waste statistics for Norway/Sweden), the following end-of-life assumptions are applied:

Wood packaging: 32% recycled 30% incinerated and 38% landfill.

Cardboard packaging: 83% recycled, 8% incinerated and 9% landfill.

Plastic packaging: 40% recycled, 37% incinerated, and 23% landfill.

The average transport distance to the recycling or disposal facility is 50 km by lorry (>32 t, EURO 5).

PRODUCT USE AND MAINTENANCE (B1-B7)

This is not in scope of this EPD

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

C1 – Deconstruction/Demolition:

The product is manually removed at end of life. An energy consumption of 0.01 kWh/kg is assumed for demolition activities.

C2 – Transport to Waste Processing:

End-of-life transport occurs by lorry (16–32 metric tons, EURO 5). Average transport distances are assumed to be 250 km for recycling, 50 km for incineration, and 50 km for landfill.

C3 – Waste Processing for Reuse, Recovery, and Recycling:

At end of life, the product is sorted and processed according to typical Scandinavian waste management practices.

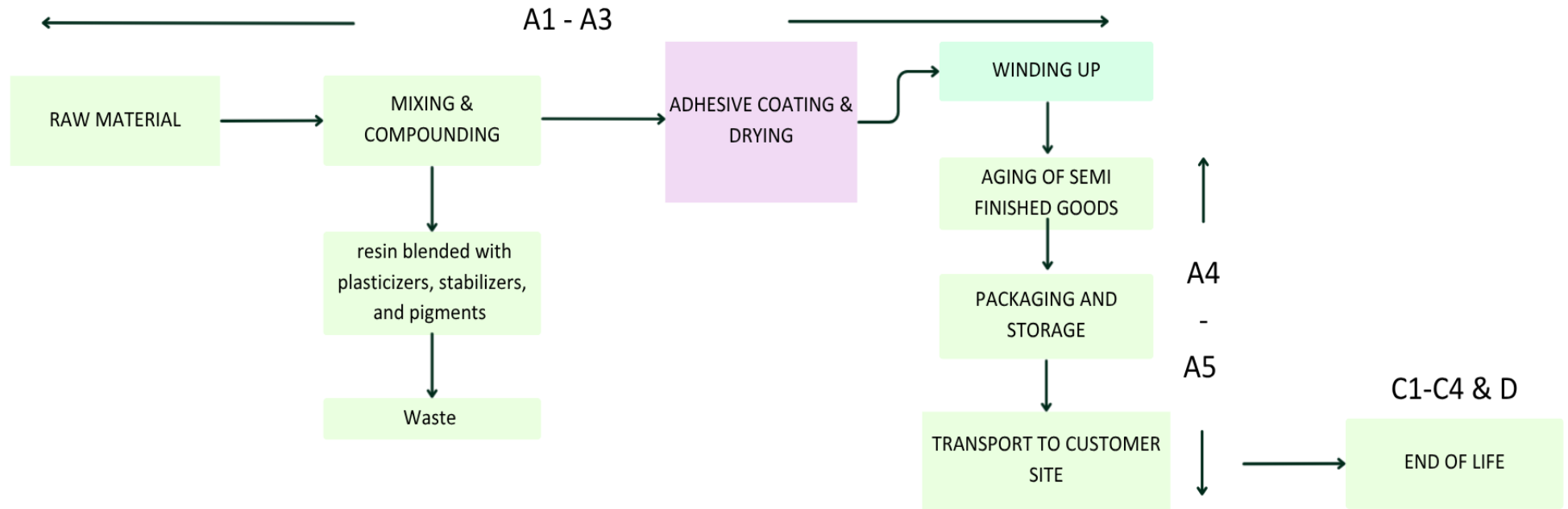
C4 – Disposal:

Residual material not suitable for recycling or energy recovery is sent to landfills. Impacts from final disposal are included.

D – Packaging Materials:

Untreated wooden pallets and cardboard boxes are assumed to be incinerated with energy and heat recovery, in accordance with the EU packaging waste management scenario.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass. Minor components such as nails used (wooden box) in packaging have not been included. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	-

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 v3.2.3. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

EN 15804 + A2:2019 – Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.

EPD Hub General Programme Instructions (GPI), (2023)

EPD Hub Product Category Rules (PCR): Electrification Components and Systems, Version 1.0 (2023)

Ecoinvent v3.9 (2023) – Life Cycle Inventory database used for background data.

ISO 14040:2006 – Environmental management – Life cycle assessment – Principles and framework.

ISO 14044:2006 – Environmental management – Life cycle assessment – Requirements and guidelines.

Manufacturer primary data (2023) – Material composition, energy consumption, packaging, transport distances, and waste treatment provided by the manufacturer.

Eurostat (2023) – Recycling and waste management statistics for Norway and Sweden used for end-of-life assumptions.

European Commission JRC (2021) – Electricity and heat mix data for substitution modelling.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	2.60E-01	1.26E-02	2.13E-01	4.85E-01	2.98E-02	2.01E-02	ND	ND	ND	ND	ND	ND	ND	8.01E-05	1.37E-03	7.46E-02	2.39E-03	-6.55E-02
GWP – fossil	kg CO ₂ e	2.59E-01	1.26E-02	2.29E-01	5.01E-01	2.98E-02	1.23E-03	ND	ND	ND	ND	ND	ND	ND	8.01E-05	1.37E-03	7.47E-02	2.39E-03	-6.70E-02
GWP – biogenic	kg CO ₂ e	5.60E-04	2.86E-06	-1.65E-02	-1.59E-02	6.74E-06	1.89E-02	ND	ND	ND	ND	ND	ND	ND	8.17E-09	3.10E-07	-1.15E-04	-1.26E-06	1.59E-03
GWP – LULUC	kg CO ₂ e	3.27E-04	5.65E-06	4.97E-05	3.83E-04	1.33E-05	3.27E-07	ND	ND	ND	ND	ND	ND	ND	8.21E-09	6.12E-07	1.13E-05	1.46E-07	-7.62E-05
Ozone depletion pot.	kg CFC ₁₁ e	6.23E-08	1.87E-10	2.30E-09	6.48E-08	4.39E-10	8.67E-12	ND	ND	ND	ND	ND	ND	ND	1.23E-12	2.02E-11	3.39E-10	5.78E-12	-2.22E-08
Acidification potential	mol H ⁺ e	1.11E-03	4.31E-05	2.31E-03	3.46E-03	1.01E-04	4.23E-06	ND	ND	ND	ND	ND	ND	ND	7.23E-07	4.66E-06	5.83E-05	1.59E-06	-2.63E-04
EP-freshwater ²⁾	kg Pe	7.30E-05	9.84E-07	1.16E-04	1.90E-04	2.32E-06	9.09E-08	ND	ND	ND	ND	ND	ND	ND	2.31E-09	1.06E-07	3.67E-06	2.35E-08	-3.07E-05
EP-marine	kg Ne	2.08E-04	1.42E-05	2.94E-04	5.17E-04	3.33E-05	3.41E-06	ND	ND	ND	ND	ND	ND	ND	3.35E-07	1.53E-06	1.98E-05	5.29E-06	-4.62E-05
EP-terrestrial	mol Ne	2.16E-03	1.54E-04	3.36E-03	5.67E-03	3.63E-04	1.90E-05	ND	ND	ND	ND	ND	ND	ND	3.67E-06	1.67E-05	1.63E-04	6.49E-06	-4.35E-04
POCP (“smog”) ³⁾	kg NMVOCe	9.58E-04	6.35E-05	8.75E-04	1.90E-03	1.50E-04	5.98E-06	ND	ND	ND	ND	ND	ND	ND	1.10E-06	6.87E-06	5.19E-05	2.82E-06	-2.56E-04
ADP-minerals & metals ⁴⁾	kg Sbe	3.39E-06	3.53E-08	4.94E-07	3.92E-06	8.30E-08	2.03E-09	ND	ND	ND	ND	ND	ND	ND	2.87E-11	3.81E-09	9.91E-08	5.04E-10	-9.64E-07
ADP-fossil resources	MJ	4.97E+00	1.83E-01	2.51E+00	7.67E+00	4.32E-01	7.54E-03	ND	ND	ND	ND	ND	ND	ND	1.05E-03	1.98E-02	1.27E-01	4.97E-03	-1.72E+00
Water use ⁵⁾	m ³ e depr.	7.83E-02	9.06E-04	1.11E-01	1.90E-01	2.13E-03	1.23E-04	ND	ND	ND	ND	ND	ND	ND	2.62E-06	9.80E-05	8.79E-02	2.43E-05	-2.40E-02

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1.10E-08	1.27E-09	3.53E-09	1.58E-08	2.98E-09	9.79E-11	ND	ND	ND	ND	ND	ND	ND	2.05E-11	1.37E-10	5.73E-10	3.60E-11	-9.52E-10
Ionizing radiation ⁶⁾	kBq I1235e	1.36E-02	1.60E-04	1.31E-02	2.69E-02	3.76E-04	2.03E-05	ND	ND	ND	ND	ND	ND	ND	4.64E-07	1.73E-05	5.57E-04	4.94E-06	-1.75E-02
Ecotoxicity (freshwater)	CTUe	3.71E+00	2.59E-02	2.32E+00	6.05E+00	6.11E-02	8.52E-03	ND	ND	ND	ND	ND	ND	ND	5.77E-05	2.81E-03	3.70E+00	7.40E-03	-3.18E-01
Human toxicity, cancer	CTUh	3.98E-10	2.09E-12	2.65E-11	4.26E-10	4.91E-12	2.79E-13	ND	ND	ND	ND	ND	ND	ND	8.24E-15	2.26E-13	2.33E-11	1.17E-13	-9.71E-11
Human tox. non-cancer	CTUh	2.98E-09	1.19E-10	1.39E-09	4.49E-09	2.80E-10	1.33E-11	ND	ND	ND	ND	ND	ND	ND	1.30E-13	1.28E-11	3.68E-10	2.31E-11	-7.33E-10
SQP ⁷⁾	-	7.34E-01	1.85E-01	1.75E+00	2.66E+00	4.35E-01	3.44E-03	ND	ND	ND	ND	ND	ND	ND	7.34E-05	2.00E-02	8.04E-02	1.16E-02	-2.49E-01

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	2.26E-01	2.51E-03	5.44E-01	7.72E-01	5.92E-03	-1.45E-01	ND	ND	ND	ND	ND	ND	ND	6.64E-06	2.72E-04	1.25E-02	7.78E-05	-1.52E-01
Renew. PER as material	MJ	0.00E+00	0.00E+00	1.69E-01	1.69E-01	0.00E+00	-1.69E-01	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03
Total use of renew. PER	MJ	2.26E-01	2.51E-03	7.13E-01	9.41E-01	5.92E-03	-3.14E-01	ND	ND	ND	ND	ND	ND	ND	6.64E-06	2.72E-04	1.25E-02	7.78E-05	-1.49E-01
Non-re. PER as energy	MJ	3.17E+00	1.83E-01	2.48E+00	5.83E+00	4.32E-01	-1.23E-02	ND	ND	ND	ND	ND	ND	ND	1.05E-03	1.98E-02	-1.73E+00	-7.78E-01	-2.29E+00
Non-re. PER as material	MJ	0.00E+00	0.00E+00	3.41E-04	3.41E-04	0.00E+00	-3.41E-04	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00
Total use of non-re. PER	MJ	3.17E+00	1.83E-01	2.48E+00	5.83E+00	4.32E-01	-1.27E-02	ND	ND	ND	ND	ND	ND	ND	1.05E-03	1.98E-02	-1.73E+00	-7.78E-01	-1.13E+00
Secondary materials	kg	1.22E-03	7.81E-05	4.33E-04	1.73E-03	1.84E-04	6.80E-06	ND	ND	ND	ND	ND	ND	ND	4.35E-07	8.44E-06	1.30E-04	1.80E-06	2.85E-02
Renew. secondary fuels	MJ	1.14E-05	9.92E-07	2.98E-05	4.22E-05	2.33E-06	3.97E-08	ND	ND	ND	ND	ND	ND	ND	1.14E-09	1.07E-07	1.17E-05	3.37E-08	-2.11E-06
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m ³	1.90E-03	2.71E-05	1.12E-03	3.04E-03	6.38E-05	-4.84E-06	ND	ND	ND	ND	ND	ND	ND	6.93E-08	2.93E-06	2.04E-03	-7.39E-05	-7.18E-04

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1.95E-02	3.11E-04	1.33E-02	3.31E-02	7.32E-04	5.59E-05	ND	ND	ND	ND	ND	ND	ND	1.17E-06	3.36E-05	2.07E-02	8.74E-06	-3.71E-03
Non-hazardous waste	kg	2.42E+00	5.75E-03	5.75E-01	3.00E+00	1.35E-02	1.13E-02	ND	ND	ND	ND	ND	ND	ND	1.59E-05	6.22E-04	8.87E-02	9.93E-02	-1.89E+00
Radioactive waste	kg	3.43E-06	3.91E-08	5.29E-06	8.77E-06	9.21E-08	5.14E-09	ND	ND	ND	ND	ND	ND	ND	1.14E-10	4.23E-09	1.43E-07	1.21E-09	-4.52E-06

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	8.00E-04	8.00E-04	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	1.70E-03	1.70E-03	0.00E+00	6.50E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	2.70E-02	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	2.70E-01	0.00E+00	0.00E+00
Exported energy – Electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00
Exported energy – Heat	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	1.60E-01	0.00E+00	0.00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	2.58E-01	1.26E-02	2.28E-01	4.98E-01	2.96E-02	1.94E-03	ND	ND	ND	ND	ND	ND	ND	7.97E-05	1.36E-03	7.48E-02	2.29E-03	-6.51E-02
Ozone depletion Pot.	kg CFC ₁₁ e	6.22E-08	1.49E-10	1.95E-09	6.43E-08	3.51E-10	6.96E-12	ND	ND	ND	ND	ND	ND	ND	9.72E-13	1.61E-11	3.22E-10	4.62E-12	-2.20E-08
Acidification	kg SO ₂ e	9.15E-04	3.29E-05	2.01E-03	2.96E-03	7.75E-05	3.06E-06	ND	ND	ND	ND	ND	ND	ND	5.08E-07	3.56E-06	4.59E-05	1.18E-06	-2.21E-04
Eutrophication	kg PO ₄ ³ e	2.38E-03	8.02E-06	4.87E-04	2.87E-03	1.89E-05	1.68E-06	ND	ND	ND	ND	ND	ND	ND	1.19E-07	8.67E-07	9.12E-06	7.72E-07	-6.21E-05
POCP (“smog”)	kg C ₂ H ₄ e	7.54E-05	2.93E-06	6.86E-05	1.47E-04	6.91E-06	4.06E-07	ND	ND	ND	ND	ND	ND	ND	3.81E-08	3.17E-07	4.32E-06	4.43E-07	-1.87E-05
ADP-elements	kg Sbe	2.79E-06	3.44E-08	4.92E-07	3.32E-06	8.10E-08	1.98E-09	ND	ND	ND	ND	ND	ND	ND	2.79E-11	3.72E-09	6.77E-08	4.89E-10	-7.68E-07
ADP-fossil	MJ	4.76E+00	1.81E-01	2.50E+00	7.44E+00	4.26E-01	7.19E-03	ND	ND	ND	ND	ND	ND	ND	1.04E-03	1.96E-02	1.18E-01	4.89E-03	-1.41E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	2.60E-01	1.26E-02	2.29E-01	5.01E-01	2.98E-02	1.23E-03	ND	ND	ND	ND	ND	ND	ND	8.01E-05	1.37E-03	7.47E-02	2.40E-03	-6.71E-02

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO₂ is set to zero.

SCALING TABLE FOR DIFFERENT TYPES OF PVC Tapes:

This EPD covers the following listed PVC Tapes:

Sr no.	PVC tape description	Weight (Kg)	(A1-A3) GWP-total, (kgCO ₂ e)	(A1-A3) GWP-fossil, (kgCO ₂ e)
1	V TAPE 01 SORT	0.080	0.49	0.50
2	V TAPE 01 HVIT	0.080	0.48	0.49
3	V TAPE 01 RØD	0.080	0.48	0.50
4	V TAPE 01 BLÅ	0.080	0.49	0.50
5	V TAPE 01 KLAR	0.080	0.49	0.50
6	V TAPE 01 GUL/GRØNN	0.080	0.49	0.50
7	V TAPE 01 HVIT	0.100	0.61	0.62
8	V TAPE 03 SORT	0.084	0.51	0.53

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity, China, 2021, China, One Click LCA, 0.82 kgCO₂e/kWh

Transport scenario documentation - A4 (Transport resources)

1. Market for transport, freight, lorry >32 metric ton, EURO5, 3078.321 km
2. Market for transport, freight, lorry >32 metric ton, EURO5, 100 km

Transport scenario documentation A4

Scenario parameter	Value
Capacity utilization (including empty return) %	50
Bulk density of transported products	0.00E+00
Volume capacity utilization factor	1

Installation scenario documentation - A5 (Installation resources)

1. Diesel, burned in building machine, Ecoinvent, 8.0E-4 kWh

Installation scenario documentation - A5 (Installation waste)

1. Treatment of waste paperboard, unsorted, sorting, Ecoinvent, Materials for recycling, 0.0054 kg
2. Treatment of waste packaging paper, municipal incineration, Ecoinvent, 5.2E-4 kg
3. Exported Energy: Thermal, Ecoinvent, 0.0015 MJ
4. Exported Energy: Thermal, Ecoinvent, 0.0017 MJ
5. Exported Energy: Electricity, Ecoinvent, 0.001 MJ
6. Exported Energy: Electricity, Ecoinvent, 0.0012 MJ
7. Treatment of waste packaging paper, sanitary landfill, Ecoinvent, 5.8E-4 kg
8. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materials for recycling, 2.0E-4 kg

9. Treatment of waste polyethylene, municipal incineration, Ecoinvent, 1.8E-4 kg
10. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 1.1E-4 kg
11. Treatment of waste wood, post-consumer, sorting and shredding, Ecoinvent, Materials for recycling, 9.0E-4 kg
12. Treatment of waste wood, untreated, municipal incineration, Ecoinvent, 8.4E-4 kg
13. Exported Energy: Electricity, Ecoinvent, 0.0019 MJ
14. Exported Energy: Thermal, Ecoinvent, 0.0026 MJ
15. Treatment of waste wood, untreated, sanitary landfill, Ecoinvent, 0.0011 kg

Use stages scenario documentation - C1-C4 (Data source)

1. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materials for recycling, 0.027 kg
2. Treatment of waste polyvinylchloride, municipal incineration, Ecoinvent, 0.033 kg
3. Exported Energy: Electricity, Ecoinvent, 0.11 MJ
4. Exported Energy: Thermal, Ecoinvent, 0.16 MJ
5. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.02 kg
6. Diesel, burned in building machine, Ecoinvent, 8.0E-4 MJ

Scenario information	Value
Scenario assumptions e.g. transportation	Transported 250 km (recycling) and 50 km (landfill) by lorry

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15802+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Magaly Gonzalez Vazquez as an authorized verifier for EPD Hub Limited
23.11.2025

