

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.80



Product: 3001483 - PVC Cap GY 110 Combi
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 08-06-2023
End of validity: 08-06-2028
Verifier: Martijn van Hövell - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - PL -Buk - Extra products (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑
Product stage					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage												Benefits and loads beyond the system boundaries				
A4 Transport gate to site A5 Assembly / Construction installation process												D Reuse- Recovery- Recycling- potential				

Environmental impacts and parameters

GWP-total = EF EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.76E-1	4.19E-3	1.45E-4	2.81E-1	3.39E-3	1.48E-1	1.08E-3	-1.50E-1	2.83E-1
GWP-f	kg CO2 eq	3.06E-1	4.18E-3	1.46E-4	3.11E-1	3.39E-3	1.08E-1	1.08E-3	-1.65E-1	2.59E-1
GWP-b	kg CO2 eq	-3.03E-2	2.54E-6	-1.54E-6	-3.03E-2	2.06E-6	4.01E-2	1.36E-6	1.47E-2	2.45E-2
GWP-luluc	kg CO2 eq	3.57E-4	1.48E-6	1.49E-7	3.59E-4	1.20E-6	4.27E-5	2.88E-8	-2.19E-4	1.84E-4
ODP	kg CFC11 eq	1.47E-7	9.64E-10	8.26E-12	1.48E-7	7.82E-10	1.19E-8	4.02E-11	-7.54E-8	8.53E-8
AP	mol H+ eq	1.48E-3	2.38E-5	1.47E-6	1.51E-3	1.93E-5	2.05E-4	9.80E-7	-6.59E-4	1.08E-3
EP-fw	kg P eq	1.43E-5	3.44E-8	8.24E-9	1.44E-5	2.79E-8	1.43E-6	1.30E-9	-6.94E-6	8.90E-6
EP-m	kg N eq	2.68E-4	8.52E-6	1.55E-7	2.77E-4	6.91E-6	5.09E-5	6.02E-7	-1.22E-4	2.13E-4
EP-T	mol N eq	2.92E-3	9.39E-5	1.85E-6	3.01E-3	7.62E-5	5.60E-4	3.90E-6	-1.32E-3	2.33E-3
POCP	kg NMVOC eq	9.46E-4	2.69E-5	6.28E-7	9.73E-4	2.18E-5	1.67E-4	1.35E-6	-4.41E-4	7.22E-4
ADP-mm	kg Sb eq	2.97E-4	1.08E-7	1.97E-8	2.97E-4	8.77E-8	8.05E-7	9.88E-10	-3.15E-6	2.95E-4
ADP-f	MJ	7.34E+0	6.42E-2	1.36E-3	7.41E+0	5.21E-2	5.48E-1	2.94E-3	-3.86E+0	4.15E+0
WDP	m3 depriv.	4.55E-1	1.97E-4	5.22E-5	4.56E-1	1.60E-4	2.14E-2	2.10E-5	-2.34E-1	2.44E-1
PM	disease inc.	1.08E-8	3.78E-10	9.08E-12	1.12E-8	3.06E-10	2.54E-9	2.02E-11	-5.59E-9	8.45E-9
IR	kBq U-235 eq	1.63E-2	2.81E-4	1.02E-6	1.66E-2	2.28E-4	1.95E-3	1.35E-5	-7.96E-3	1.08E-2
ETP-fw	CTUe	9.64E+0	5.21E-2	1.21E-2	9.70E+0	4.23E-2	4.19E+0	4.61E-2	-3.35E+0	1.06E+1
HTP-c	CTUh	2.78E-10	1.86E-12	6.17E-13	2.81E-10	1.50E-12	6.39E-11	8.25E-14	-9.83E-11	2.48E-10
HTP-nc	CTUh	8.42E-9	6.21E-11	1.57E-11	8.50E-9	5.04E-11	1.48E-9	8.87E-12	-3.02E-9	7.01E-9
SQP	Pt	4.46E+0	5.49E-2	2.24E-3	4.52E+0	4.45E-2	3.36E-1	7.52E-3	-5.54E+0	-6.25E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.68E+0	9.21E-4	2.40E-2	1.70E+0	7.47E-4	3.93E-2	1.09E-4	-1.01E+0	7.28E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.68E+0	9.21E-4	2.40E-2	1.70E+0	7.47E-4	3.93E-2	1.09E-4	-1.01E+0	7.28E-1
PENRE	MJ	7.87E+0	6.82E-2	1.44E-3	7.94E+0	5.53E-2	5.83E-1	3.12E-3	-4.16E+0	4.42E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.87E+0	6.82E-2	1.44E-3	7.94E+0	5.53E-2	5.83E-1	3.12E-3	-4.16E+0	4.42E+0
PET	MJ	9.55E+0	6.91E-2	2.55E-2	9.65E+0	5.60E-2	6.23E-1	3.23E-3	-5.17E+0	5.15E+0
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	5.40E-3	7.26E-6	1.46E-6	5.41E-3	5.89E-6	5.90E-4	3.59E-6	-2.82E-3	3.19E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.26E-5	1.64E-7	2.73E-13	4.27E-5	1.33E-7	9.06E-7	3.59E-9	-3.47E-6	4.03E-5
NHWD	kg	3.27E-2	3.98E-3	1.05E-6	3.67E-2	3.23E-3	2.05E-2	1.29E-2	-1.37E-2	5.96E-2
RWD	kg	1.44E-5	4.37E-7	1.10E-13	1.48E-5	3.54E-7	2.10E-6	1.91E-8	-7.17E-6	1.01E-5
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777