

Environmental Profile

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

Ecochain v3.5.80



Product: 3003261 - PVC Cap GY 75 SP
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	9.41E-2	1.31E-3	1.45E-4	9.56E-2	1.31E-3	8.26E-2	4.23E-4	-6.51E-2	1.15E-1
GWP-f	kg CO2 eq	1.26E-1	1.31E-3	1.46E-4	1.28E-1	1.31E-3	4.75E-2	4.22E-4	-6.88E-2	1.08E-1
GWP-b	kg CO2 eq	-3.24E-2	7.96E-7	-1.54E-6	-3.24E-2	7.97E-7	3.51E-2	5.23E-7	3.77E-3	6.52E-3
GWP-luluc	kg CO2 eq	1.41E-4	4.64E-7	1.49E-7	1.42E-4	4.64E-7	1.64E-5	1.14E-8	-8.15E-5	7.75E-5
ODP	kg CFC11 eq	5.65E-8	3.02E-10	8.26E-12	5.68E-8	3.02E-10	4.53E-9	1.56E-11	-2.97E-8	3.20E-8
AP	mol H+ eq	6.11E-4	7.47E-6	1.47E-6	6.20E-4	7.47E-6	7.94E-5	3.81E-7	-2.66E-4	4.41E-4
EP-fw	kg P eq	5.68E-6	1.08E-8	8.24E-9	5.69E-6	1.08E-8	5.49E-7	5.09E-10	-2.65E-6	3.60E-6
EP-m	kg N eq	1.10E-4	2.67E-6	1.55E-7	1.13E-4	2.67E-6	1.99E-5	2.32E-7	-5.08E-5	8.51E-5
EP-T	mol N eq	1.21E-3	2.94E-5	1.85E-6	1.24E-3	2.95E-5	2.20E-4	1.51E-6	-5.54E-4	9.36E-4
POCP	kg NMVOC eq	4.05E-4	8.42E-6	6.28E-7	4.14E-4	8.43E-6	6.54E-5	5.22E-7	-1.89E-4	3.00E-4
ADP-mm	kg Sb eq	9.96E-5	3.39E-8	1.97E-8	9.96E-5	3.39E-8	3.09E-7	3.85E-10	-1.26E-6	9.87E-5
ADP-f	MJ	3.02E+0	2.01E-2	1.36E-3	3.04E+0	2.01E-2	2.12E-1	1.14E-3	-1.58E+0	1.69E+0
WDP	m3 depriv.	1.80E-1	6.18E-5	5.22E-5	1.80E-1	6.18E-5	8.19E-3	8.90E-6	-8.86E-2	9.93E-2
PM	disease inc.	4.70E-9	1.18E-10	9.08E-12	4.83E-9	1.18E-10	9.83E-10	7.84E-12	-2.35E-9	3.58E-9
IR	kBq U-235 eq	6.49E-3	8.80E-5	1.02E-6	6.58E-3	8.80E-5	7.51E-4	5.21E-6	-3.12E-3	4.30E-3
ETP-fw	CTUe	3.49E+0	1.63E-2	1.21E-2	3.52E+0	1.64E-2	1.60E+0	1.76E-2	-1.23E+0	3.92E+0
HTP-c	CTUh	1.10E-10	5.82E-13	6.17E-13	1.11E-10	5.82E-13	2.59E-11	3.25E-14	-4.45E-11	9.35E-11
HTP-nc	CTUh	3.17E-9	1.95E-11	1.57E-11	3.21E-9	1.95E-11	5.72E-10	3.39E-12	-1.22E-9	2.59E-9
SQP	Pt	3.37E+0	1.72E-2	2.24E-3	3.39E+0	1.72E-2	1.31E-1	2.91E-3	-3.23E+0	3.08E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.85E-1	2.89E-4	2.40E-2	8.09E-1	2.89E-4	1.51E-2	4.17E-5	-5.45E-1	2.80E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.85E-1	2.89E-4	2.40E-2	8.09E-1	2.89E-4	1.51E-2	4.17E-5	-5.45E-1	2.80E-1
PENRE	MJ	3.24E+0	2.14E-2	1.44E-3	3.26E+0	2.14E-2	2.25E-1	1.21E-3	-1.71E+0	1.80E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.24E+0	2.14E-2	1.44E-3	3.26E+0	2.14E-2	2.25E-1	1.21E-3	-1.71E+0	1.80E+0
PET	MJ	4.03E+0	2.17E-2	2.55E-2	4.07E+0	2.17E-2	2.40E-1	1.25E-3	-2.25E+0	2.08E+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	2.20E-3	2.28E-6	1.46E-6	2.20E-3	2.28E-6	2.27E-4	1.39E-6	-1.05E-3	1.39E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.46E-5	5.15E-8	2.73E-13	1.47E-5	5.15E-8	3.51E-7	1.40E-9	-1.48E-6	1.36E-5
NHWD	kg	1.37E-2	1.25E-3	1.05E-6	1.49E-2	1.25E-3	8.23E-3	4.99E-3	-5.98E-3	2.34E-2
RWD	kg	5.76E-6	1.37E-7	1.10E-13	5.90E-6	1.37E-7	8.12E-7	7.38E-9	-2.84E-6	4.01E-6
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