

Environmental Profile

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

Ecochain v3.5.80



Product: 3003266 - PVC Cap GY 125 For spigot
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	2.13E-1	3.14E-3	1.45E-4	2.16E-1	2.68E-3	1.24E-1	8.56E-4	-1.17E-1	2.26E-1
GWP-f	kg CO2 eq	2.43E-1	3.14E-3	1.46E-4	2.46E-1	2.68E-3	8.37E-2	8.56E-4	-1.32E-1	2.02E-1
GWP-b	kg CO2 eq	-3.09E-2	1.90E-6	-1.54E-6	-3.09E-2	1.63E-6	4.01E-2	1.07E-6	1.49E-2	2.42E-2
GWP-luluc	kg CO2 eq	2.98E-4	1.11E-6	1.49E-7	2.99E-4	9.49E-7	3.39E-5	2.27E-8	-2.00E-4	1.35E-4
ODP	kg CFC11 eq	1.17E-7	7.23E-10	8.26E-12	1.18E-7	6.18E-10	9.44E-9	3.18E-11	-5.98E-8	6.81E-8
AP	mol H+ eq	1.17E-3	1.79E-5	1.47E-6	1.19E-3	1.53E-5	1.64E-4	7.74E-7	-5.41E-4	8.30E-4
EP-fw	kg P eq	1.14E-5	2.58E-8	8.24E-9	1.14E-5	2.21E-8	1.14E-6	1.02E-9	-5.82E-6	6.74E-6
EP-m	kg N eq	2.15E-4	6.39E-6	1.55E-7	2.21E-4	5.46E-6	4.08E-5	4.77E-7	-1.01E-4	1.67E-4
EP-T	mol N eq	2.32E-3	7.04E-5	1.85E-6	2.39E-3	6.02E-5	4.50E-4	3.08E-6	-1.10E-3	1.80E-3
POCP	kg NMVOC eq	7.49E-4	2.01E-5	6.28E-7	7.70E-4	1.72E-5	1.34E-4	1.06E-6	-3.65E-4	5.58E-4
ADP-mm	kg Sb eq	1.99E-4	8.11E-8	1.97E-8	1.99E-4	6.94E-8	6.44E-7	7.79E-10	-2.53E-6	1.97E-4
ADP-f	MJ	5.79E+0	4.81E-2	1.36E-3	5.84E+0	4.12E-2	4.37E-1	2.32E-3	-3.07E+0	3.25E+0
WDP	m3 depriv.	3.59E-1	1.48E-4	5.22E-5	3.60E-1	1.26E-4	1.70E-2	1.62E-5	-1.90E-1	1.87E-1
PM	disease inc.	8.79E-9	2.83E-10	9.08E-12	9.08E-9	2.42E-10	2.03E-9	1.60E-11	-4.85E-9	6.52E-9
IR	kBq U-235 eq	1.29E-2	2.10E-4	1.02E-6	1.32E-2	1.80E-4	1.56E-3	1.07E-5	-6.53E-3	8.36E-3
ETP-fw	CTUe	7.67E+0	3.91E-2	1.21E-2	7.73E+0	3.34E-2	3.33E+0	3.66E-2	-2.92E+0	8.20E+0
HTP-c	CTUh	2.15E-10	1.39E-12	6.17E-13	2.17E-10	1.19E-12	5.07E-11	6.50E-14	-8.20E-11	1.87E-10
HTP-nc	CTUh	6.45E-9	4.66E-11	1.57E-11	6.51E-9	3.98E-11	1.17E-9	7.03E-12	-2.47E-9	5.27E-9
SQP	Pt	4.21E+0	4.12E-2	2.24E-3	4.26E+0	3.52E-2	2.68E-1	5.94E-3	-5.46E+0	-8.90E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.35E+0	6.91E-4	2.40E-2	1.37E+0	5.90E-4	3.12E-2	8.60E-5	-9.82E-1	4.21E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.35E+0	6.91E-4	2.40E-2	1.37E+0	5.90E-4	3.12E-2	8.60E-5	-9.82E-1	4.21E-1
PENRE	MJ	6.22E+0	5.11E-2	1.44E-3	6.27E+0	4.37E-2	4.65E-1	2.46E-3	-3.31E+0	3.47E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.22E+0	5.11E-2	1.44E-3	6.27E+0	4.37E-2	4.65E-1	2.46E-3	-3.31E+0	3.47E+0
PET	MJ	7.56E+0	5.18E-2	2.55E-2	7.64E+0	4.43E-2	4.96E-1	2.55E-3	-4.29E+0	3.89E+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	4.25E-3	5.45E-6	1.46E-6	4.25E-3	4.66E-6	4.68E-4	2.84E-6	-2.36E-3	2.37E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.92E-5	1.23E-7	2.73E-13	2.94E-5	1.05E-7	7.25E-7	2.84E-9	-2.80E-6	2.74E-5
NHWD	kg	2.64E-2	2.98E-3	1.05E-6	2.93E-2	2.55E-3	1.63E-2	1.02E-2	-1.14E-2	4.70E-2
RWD	kg	1.15E-5	3.27E-7	1.10E-13	1.18E-5	2.80E-7	1.68E-6	1.51E-8	-5.90E-6	7.87E-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



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