

Environmental Profile

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

Ecochain v3.5.80



Product: 3003260 - PVC Access Plug + Screw cap GY 50/40
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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.45E-1	3.35E-3	1.45E-4	2.49E-1	3.10E-3	1.40E-1	1.01E-3	-1.43E-1	2.50E-1
GWP-f	kg CO2 eq	2.76E-1	3.35E-3	1.46E-4	2.80E-1	3.10E-3	1.04E-1	1.01E-3	-1.48E-1	2.40E-1
GWP-b	kg CO2 eq	-3.09E-2	2.03E-6	-1.54E-6	-3.09E-2	1.88E-6	3.60E-2	1.25E-6	5.33E-3	1.04E-2
GWP-luluc	kg CO2 eq	2.83E-4	1.19E-6	1.49E-7	2.84E-4	1.10E-6	3.83E-5	2.70E-8	-1.45E-4	1.79E-4
ODP	kg CFC11 eq	1.32E-7	7.72E-10	8.26E-12	1.33E-7	7.14E-10	1.05E-8	3.71E-11	-6.81E-8	7.61E-8
AP	mol H+ eq	1.34E-3	1.91E-5	1.47E-6	1.36E-3	1.77E-5	1.82E-4	9.06E-7	-5.65E-4	9.95E-4
EP-fw	kg P eq	1.26E-5	2.76E-8	8.24E-9	1.26E-5	2.55E-8	1.28E-6	1.21E-9	-5.63E-6	8.28E-6
EP-m	kg N eq	2.34E-4	6.83E-6	1.55E-7	2.41E-4	6.32E-6	4.49E-5	5.72E-7	-1.03E-4	1.90E-4
EP-T	mol N eq	2.57E-3	7.52E-5	1.85E-6	2.64E-3	6.96E-5	4.95E-4	3.60E-6	-1.11E-3	2.10E-3
POCP	kg NMVOC eq	8.55E-4	2.15E-5	6.28E-7	8.77E-4	1.99E-5	1.48E-4	1.24E-6	-3.81E-4	6.64E-4
ADP-mm	kg Sb eq	2.50E-4	8.67E-8	1.97E-8	2.50E-4	8.02E-8	7.10E-7	9.16E-10	-2.88E-6	2.48E-4
ADP-f	MJ	6.68E+0	5.14E-2	1.36E-3	6.73E+0	4.76E-2	4.89E-1	2.71E-3	-3.48E+0	3.79E+0
WDP	m3 depriv.	4.11E-1	1.58E-4	5.22E-5	4.11E-1	1.46E-4	1.92E-2	2.07E-5	-2.00E-1	2.30E-1
PM	disease inc.	9.65E-9	3.02E-10	9.08E-12	9.96E-9	2.80E-10	2.24E-9	1.87E-11	-4.38E-9	8.12E-9
IR	kBq U-235 eq	1.48E-2	2.25E-4	1.02E-6	1.51E-2	2.08E-4	1.72E-3	1.24E-5	-6.77E-3	1.02E-2
ETP-fw	CTUe	7.65E+0	4.18E-2	1.21E-2	7.71E+0	3.86E-2	3.74E+0	4.13E-2	-2.45E+0	9.08E+0
HTP-c	CTUh	2.43E-10	1.49E-12	6.17E-13	2.46E-10	1.37E-12	5.78E-11	7.71E-14	-8.58E-11	2.19E-10
HTP-nc	CTUh	7.36E-9	4.98E-11	1.57E-11	7.42E-9	4.60E-11	1.32E-9	7.99E-12	-2.59E-9	6.21E-9
SQP	Pt	3.99E+0	4.40E-2	2.24E-3	4.03E+0	4.07E-2	3.01E-1	6.93E-3	-3.80E+0	5.81E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.32E+0	7.38E-4	2.40E-2	1.35E+0	6.82E-4	3.51E-2	9.98E-5	-6.91E-1	6.93E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.32E+0	7.38E-4	2.40E-2	1.35E+0	6.82E-4	3.51E-2	9.98E-5	-6.91E-1	6.93E-1
PENRE	MJ	7.16E+0	5.46E-2	1.44E-3	7.22E+0	5.05E-2	5.20E-1	2.88E-3	-3.75E+0	4.04E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.16E+0	5.46E-2	1.44E-3	7.22E+0	5.05E-2	5.20E-1	2.88E-3	-3.75E+0	4.04E+0
PET	MJ	8.48E+0	5.53E-2	2.55E-2	8.57E+0	5.12E-2	5.55E-1	2.98E-3	-4.45E+0	4.73E+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	4.90E-3	5.82E-6	1.46E-6	4.90E-3	5.38E-6	5.33E-4	3.31E-6	-2.26E-3	3.18E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.58E-5	1.31E-7	2.73E-13	3.60E-5	1.22E-7	8.04E-7	3.33E-9	-3.12E-6	3.38E-5
NHWD	kg	2.86E-2	3.19E-3	1.05E-6	3.18E-2	2.95E-3	1.85E-2	1.19E-2	-1.20E-2	5.31E-2
RWD	kg	1.33E-5	3.50E-7	1.10E-13	1.36E-5	3.23E-7	1.85E-6	1.76E-8	-6.09E-6	9.71E-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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