

Environmental Profile

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

Ecochain v3.5.80



Product: 3003265 - PVC Endcap GY 110 +Inspection cover
 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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

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	6.88E-1	1.02E-2	1.45E-4	6.99E-1	8.64E-3	4.14E-1	2.90E-3	-3.85E-1	7.39E-1
GWP-f	kg CO2 eq	7.81E-1	1.02E-2	1.46E-4	7.91E-1	8.63E-3	3.01E-1	2.90E-3	-4.14E-1	6.90E-1
GWP-b	kg CO2 eq	-9.31E-2	6.20E-6	-1.54E-6	-9.31E-2	5.24E-6	1.14E-1	3.58E-6	2.91E-2	4.95E-2
GWP-luluc	kg CO2 eq	8.69E-4	3.61E-6	1.49E-7	8.72E-4	3.06E-6	1.06E-4	7.50E-8	-5.01E-4	4.80E-4
ODP	kg CFC11 eq	3.76E-7	2.35E-9	8.26E-12	3.78E-7	1.99E-9	2.93E-8	1.05E-10	-1.87E-7	2.23E-7
AP	mol H+ eq	3.81E-3	5.81E-5	1.47E-6	3.87E-3	4.92E-5	5.09E-4	2.57E-6	-1.62E-3	2.81E-3
EP-fw	kg P eq	3.59E-5	8.40E-8	8.24E-9	3.60E-5	7.10E-8	3.55E-6	3.39E-9	-1.66E-5	2.29E-5
EP-m	kg N eq	6.77E-4	2.08E-5	1.55E-7	6.98E-4	1.76E-5	1.26E-4	1.78E-6	-2.99E-4	5.45E-4
EP-T	mol N eq	7.37E-3	2.29E-4	1.85E-6	7.60E-3	1.94E-4	1.39E-3	1.02E-5	-3.25E-3	5.95E-3
POCP	kg NMVOC eq	2.47E-3	6.55E-5	6.28E-7	2.53E-3	5.54E-5	4.15E-4	3.54E-6	-1.09E-3	1.91E-3
ADP-mm	kg Sb eq	7.14E-4	2.64E-7	1.97E-8	7.14E-4	2.23E-7	1.98E-6	2.58E-9	-8.46E-6	7.08E-4
ADP-f	MJ	1.90E+1	1.57E-1	1.36E-3	1.92E+1	1.33E-1	1.36E+0	7.70E-3	-9.67E+0	1.10E+1
WDP	m3 depriv.	1.14E+0	4.81E-4	5.22E-5	1.14E+0	4.07E-4	5.36E-2	5.22E-5	-5.67E-1	6.28E-1
PM	disease inc.	2.90E-8	9.21E-10	9.08E-12	2.99E-8	7.79E-10	6.24E-9	5.30E-11	-1.35E-8	2.35E-8
IR	kBq U-235 eq	4.42E-2	6.85E-4	1.02E-6	4.49E-2	5.79E-4	4.80E-3	3.54E-5	-1.95E-2	3.08E-2
ETP-fw	CTUe	2.33E+1	1.27E-1	1.21E-2	2.34E+1	1.08E-1	1.05E+1	1.15E-1	-7.80E+0	2.63E+1
HTP-c	CTUh	6.84E-10	4.53E-12	6.17E-13	6.89E-10	3.83E-12	1.55E-10	2.14E-13	-2.46E-10	6.02E-10
HTP-nc	CTUh	2.07E-8	1.52E-10	1.57E-11	2.09E-8	1.28E-10	3.66E-9	2.23E-11	-7.52E-9	1.72E-8
SQP	Pt	1.23E+1	1.34E-1	2.24E-3	1.25E+1	1.13E-1	8.29E-1	1.97E-2	-1.36E+1	-1.65E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.22E+0	2.25E-3	2.40E-2	4.25E+0	1.90E-3	9.74E-2	2.90E-4	-2.45E+0	1.89E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.22E+0	2.25E-3	2.40E-2	4.25E+0	1.90E-3	9.74E-2	2.90E-4	-2.45E+0	1.89E+0
PENRE	MJ	2.04E+1	1.66E-1	1.44E-3	2.05E+1	1.41E-1	1.44E+0	8.17E-3	-1.04E+1	1.17E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.04E+1	1.66E-1	1.44E-3	2.05E+1	1.41E-1	1.44E+0	8.17E-3	-1.04E+1	1.17E+1
PET	MJ	2.46E+1	1.69E-1	2.55E-2	2.48E+1	1.43E-1	1.54E+0	8.46E-3	-1.29E+1	1.36E+1
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	1.37E-2	1.77E-5	1.46E-6	1.37E-2	1.50E-5	1.52E-3	9.43E-6	-6.73E-3	8.53E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.01E-4	4.00E-7	2.73E-13	1.01E-4	3.39E-7	2.26E-6	9.39E-9	-8.68E-6	9.50E-5
NHWD	kg	8.12E-2	9.71E-3	1.05E-6	9.09E-2	8.21E-3	5.08E-2	3.38E-2	-3.41E-2	1.50E-1
RWD	kg	4.12E-5	1.07E-6	1.10E-13	4.23E-5	9.01E-7	5.17E-6	5.01E-8	-1.77E-5	3.07E-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



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