

Environmental Profile

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

Ecochain v3.5.80



Product: 3003262 - PVC Endcap GY 75 +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					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	3.43E-1	4.80E-3	1.45E-4	3.48E-1	4.30E-3	1.74E-1	1.40E-3	-1.88E-1	3.38E-1
GWP-f	kg CO2 eq	3.72E-1	4.80E-3	1.46E-4	3.77E-1	4.30E-3	1.35E-1	1.40E-3	-1.99E-1	3.18E-1
GWP-b	kg CO2 eq	-2.97E-2	2.91E-6	-1.54E-6	-2.97E-2	2.61E-6	3.87E-2	1.74E-6	1.12E-2	2.02E-2
GWP-luluc	kg CO2 eq	3.98E-4	1.70E-6	1.49E-7	4.00E-4	1.52E-6	5.33E-5	3.71E-8	-2.21E-4	2.33E-4
ODP	kg CFC11 eq	1.84E-7	1.11E-9	8.26E-12	1.85E-7	9.90E-10	1.47E-8	5.14E-11	-9.38E-8	1.07E-7
AP	mol H+ eq	1.80E-3	2.73E-5	1.47E-6	1.83E-3	2.45E-5	2.52E-4	1.25E-6	-7.84E-4	1.33E-3
EP-fw	kg P eq	1.72E-5	3.95E-8	8.24E-9	1.73E-5	3.54E-8	1.78E-6	1.67E-9	-8.03E-6	1.11E-5
EP-m	kg N eq	3.17E-4	9.77E-6	1.55E-7	3.27E-4	8.76E-6	6.22E-5	7.98E-7	-1.43E-4	2.57E-4
EP-T	mol N eq	3.46E-3	1.08E-4	1.85E-6	3.57E-3	9.65E-5	6.85E-4	5.00E-6	-1.54E-3	2.82E-3
POCP	kg NMVOC eq	1.14E-3	3.08E-5	6.28E-7	1.17E-3	2.76E-5	2.05E-4	1.72E-6	-5.21E-4	8.81E-4
ADP-mm	kg Sb eq	3.50E-4	1.24E-7	1.97E-8	3.50E-4	1.11E-7	9.91E-7	1.27E-9	-3.99E-6	3.47E-4
ADP-f	MJ	8.99E+0	7.36E-2	1.36E-3	9.07E+0	6.60E-2	6.80E-1	3.76E-3	-4.72E+0	5.09E+0
WDP	m3 depriv.	5.64E-1	2.26E-4	5.22E-5	5.64E-1	2.02E-4	2.68E-2	2.74E-5	-2.82E-1	3.09E-1
PM	disease inc.	1.29E-8	4.33E-10	9.08E-12	1.33E-8	3.88E-10	3.12E-9	2.59E-11	-6.18E-9	1.07E-8
IR	kBq U-235 eq	2.04E-2	3.22E-4	1.02E-6	2.07E-2	2.88E-4	2.40E-3	1.72E-5	-9.50E-3	1.39E-2
ETP-fw	CTUe	1.09E+1	5.98E-2	1.21E-2	1.10E+1	5.36E-2	5.23E+0	5.77E-2	-3.62E+0	1.27E+1
HTP-c	CTUh	3.30E-10	2.13E-12	6.17E-13	3.33E-10	1.91E-12	7.85E-11	1.06E-13	-1.16E-10	2.97E-10
HTP-nc	CTUh	1.02E-8	7.13E-11	1.57E-11	1.02E-8	6.38E-11	1.83E-9	1.11E-11	-3.64E-9	8.52E-9
SQP	Pt	4.56E+0	6.30E-2	2.24E-3	4.62E+0	5.64E-2	4.17E-1	9.61E-3	-5.05E+0	5.78E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.78E+0	1.06E-3	2.40E-2	1.80E+0	9.46E-4	4.89E-2	1.39E-4	-9.47E-1	9.06E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.78E+0	1.06E-3	2.40E-2	1.80E+0	9.46E-4	4.89E-2	1.39E-4	-9.47E-1	9.06E-1
PENRE	MJ	9.65E+0	7.82E-2	1.44E-3	9.72E+0	7.00E-2	7.23E-1	3.99E-3	-5.09E+0	5.43E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.65E+0	7.82E-2	1.44E-3	9.72E+0	7.00E-2	7.23E-1	3.99E-3	-5.09E+0	5.43E+0
PET	MJ	1.14E+1	7.92E-2	2.55E-2	1.15E+1	7.10E-2	7.72E-1	4.13E-3	-6.04E+0	6.34E+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	6.61E-3	8.33E-6	1.46E-6	6.62E-3	7.46E-6	7.43E-4	4.59E-6	-3.26E-3	4.12E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.00E-5	1.88E-7	2.73E-13	5.02E-5	1.69E-7	1.12E-6	4.60E-9	-4.17E-6	4.73E-5
NHWD	kg	3.85E-2	4.56E-3	1.05E-6	4.31E-2	4.09E-3	2.52E-2	1.65E-2	-1.63E-2	7.25E-2
RWD	kg	1.83E-5	5.01E-7	1.10E-13	1.88E-5	4.49E-7	2.58E-6	2.44E-8	-8.52E-6	1.33E-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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