

Environmental Profile

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

Ecochain v3.5.80



Product: 3003267 - PVC Endpiece GY 125 +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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.30E-1	1.14E-2	1.45E-4	8.42E-1	1.02E-2	4.75E-1	3.42E-3	-4.55E-1	8.76E-1
GWP-f	kg CO2 eq	9.21E-1	1.14E-2	1.46E-4	9.33E-1	1.02E-2	3.60E-1	3.42E-3	-4.87E-1	8.20E-1
GWP-b	kg CO2 eq	-9.22E-2	6.93E-6	-1.54E-6	-9.22E-2	6.18E-6	1.15E-1	4.23E-6	3.21E-2	5.49E-2
GWP-luluc	kg CO2 eq	1.00E-3	4.04E-6	1.49E-7	1.01E-3	3.60E-6	1.25E-4	8.83E-8	-5.66E-4	5.70E-4
ODP	kg CFC11 eq	4.44E-7	2.63E-9	8.26E-12	4.47E-7	2.34E-9	3.46E-8	1.24E-10	-2.20E-7	2.64E-7
AP	mol H+ eq	4.49E-3	6.50E-5	1.47E-6	4.55E-3	5.80E-5	5.99E-4	3.03E-6	-1.88E-3	3.33E-3
EP-fw	kg P eq	4.22E-5	9.40E-8	8.24E-9	4.23E-5	8.37E-8	4.18E-6	3.99E-9	-1.93E-5	2.72E-5
EP-m	kg N eq	7.94E-4	2.33E-5	1.55E-7	8.17E-4	2.07E-5	1.49E-4	2.12E-6	-3.47E-4	6.42E-4
EP-T	mol N eq	8.64E-3	2.56E-4	1.85E-6	8.89E-3	2.29E-4	1.64E-3	1.21E-5	-3.75E-3	7.02E-3
POCP	kg NMVOC eq	2.90E-3	7.33E-5	6.28E-7	2.98E-3	6.53E-5	4.87E-4	4.18E-6	-1.26E-3	2.27E-3
ADP-mm	kg Sb eq	8.18E-4	2.95E-7	1.97E-8	8.19E-4	2.63E-7	2.33E-6	3.04E-9	-9.95E-6	8.11E-4
ADP-f	MJ	2.25E+1	1.75E-1	1.36E-3	2.27E+1	1.56E-1	1.60E+0	9.09E-3	-1.14E+1	1.31E+1
WDP	m3 depriv.	1.35E+0	5.38E-4	5.22E-5	1.35E+0	4.79E-4	6.32E-2	6.05E-5	-6.64E-1	7.48E-1
PM	disease inc.	3.39E-8	1.03E-9	9.08E-12	3.50E-8	9.18E-10	7.33E-9	6.25E-11	-1.54E-8	2.79E-8
IR	kBq U-235 eq	5.22E-2	7.66E-4	1.02E-6	5.30E-2	6.83E-4	5.64E-3	4.19E-5	-2.27E-2	3.66E-2
ETP-fw	CTUe	2.70E+1	1.42E-1	1.21E-2	2.72E+1	1.27E-1	1.23E+1	1.36E-1	-8.95E+0	3.08E+1
HTP-c	CTUh	7.96E-10	5.06E-12	6.17E-13	8.02E-10	4.51E-12	1.81E-10	2.52E-13	-2.82E-10	7.05E-10
HTP-nc	CTUh	2.43E-8	1.70E-10	1.57E-11	2.45E-8	1.51E-10	4.32E-9	2.64E-11	-8.75E-9	2.02E-8
SQP	Pt	1.30E+1	1.50E-1	2.24E-3	1.32E+1	1.34E-1	9.75E-1	2.33E-2	-1.44E+1	-1.04E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.80E+0	2.51E-3	2.40E-2	4.83E+0	2.24E-3	1.15E-1	3.43E-4	-2.63E+0	2.31E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.80E+0	2.51E-3	2.40E-2	4.83E+0	2.24E-3	1.15E-1	3.43E-4	-2.63E+0	2.31E+0
PENRE	MJ	2.41E+1	1.86E-1	1.44E-3	2.43E+1	1.66E-1	1.70E+0	9.65E-3	-1.23E+1	1.39E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.41E+1	1.86E-1	1.44E-3	2.43E+1	1.66E-1	1.70E+0	9.65E-3	-1.23E+1	1.39E+1
PET	MJ	2.89E+1	1.89E-1	2.55E-2	2.91E+1	1.68E-1	1.81E+0	9.99E-3	-1.49E+1	1.62E+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	1.62E-2	1.98E-5	1.46E-6	1.62E-2	1.77E-5	1.80E-3	1.11E-5	-7.83E-3	1.02E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.16E-4	4.48E-7	2.73E-13	1.16E-4	3.99E-7	2.66E-6	1.11E-8	-1.02E-5	1.09E-4
NHWD	kg	9.48E-2	1.09E-2	1.05E-6	1.06E-1	9.68E-3	5.98E-2	3.99E-2	-3.93E-2	1.76E-1
RWD	kg	4.87E-5	1.19E-6	1.10E-13	4.99E-5	1.06E-6	6.07E-6	5.91E-8	-2.06E-5	3.66E-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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