

Environmental Profile

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

Ecochain v3.5.80



Product: 3004649 - PVC Electro Pipe Vsv GY 1" L=4
Unit: 1 piece
Manufacturer: Wavin - NL - Hardenberg - Verified
Address: J.C. Kellerlaan 3
7772 SG Hardenberg
Netherlands

LCA standard: NMD Bepalingsmethode 1.1 (2022)
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



With Wavin electro PVC you not only opt for a complete range, but also for high quality.

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 - NL - Hardenberg - Verified (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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.14	0	0.01	0.15	0	0.05	0	-0.07	0.13
ADPE	kg Sb-eq	3.38E-5	7.14E-7	1.08E-6	3.56E-5	4.60E-7	3.92E-6	4.88E-9	-1.42E-5	2.57E-5
ADPF	kg Sb-eq	1.57E-2	2.05E-4	2.90E-4	1.62E-2	1.30E-4	1.38E-3	6.87E-6	-8.10E-3	9.65E-3
GWP	kg CO2-eq	1.31E+0	2.79E-2	5.16E-2	1.39E+0	1.77E-2	4.68E-1	4.45E-3	-6.83E-1	1.20E+0
ODP	kg CFC-11-eq	6.95E-7	4.95E-9	4.85E-9	7.04E-7	3.27E-9	5.64E-8	1.65E-10	-3.53E-7	4.11E-7
POCP	kg ethene-eq	8.60E-4	1.69E-5	2.27E-5	9.00E-4	1.06E-5	1.08E-4	1.17E-6	-3.50E-4	6.70E-4
AP	kg SO2-eq	5.18E-3	1.23E-4	2.02E-4	5.51E-3	7.60E-5	7.96E-4	3.67E-6	-2.23E-3	4.16E-3
EP	kg PO4 3--eq	6.09E-4	2.41E-5	3.20E-5	6.65E-4	1.52E-5	1.20E-4	1.43E-6	-2.71E-4	5.31E-4
HTP	kg 1,4-DB-eq	4.68E-1	1.18E-2	1.95E-2	4.99E-1	7.55E-3	2.12E-1	3.81E-4	-2.16E-1	5.03E-1
FAETP	kg 1,4-DB-eq	1.03E-2	3.43E-4	7.93E-4	1.14E-2	2.21E-4	3.18E-3	1.16E-4	-4.72E-3	1.02E-2
MAETP	kg 1,4-DB-eq	2.98E+1	1.23E+0	3.24E+0	3.42E+1	7.90E-1	1.05E+1	1.42E-1	-1.39E+1	3.18E+1
TETP	kg 1,4-DB-eq	3.24E-3	4.16E-5	1.21E-3	4.49E-3	2.68E-5	7.56E-4	1.26E-6	-1.57E-3	3.71E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.25E+0	2.82E-2	6.08E-2	1.34E+0	1.78E-2	5.74E-1	5.18E-3	-7.04E-1	1.24E+0
GWP-f	kg CO2 eq	1.35E+0	2.82E-2	4.76E-2	1.42E+0	1.78E-2	4.72E-1	5.18E-3	-6.98E-1	1.22E+0
GWP-b	kg CO2 eq	-9.24E-2	1.30E-5	1.03E-2	-8.21E-2	1.08E-5	1.02E-1	6.64E-6	-4.88E-3	1.49E-2
GWP-luluc	kg CO2 eq	9.94E-4	1.03E-5	2.90E-3	3.90E-3	6.30E-6	2.15E-4	1.38E-7	-4.66E-4	3.66E-3
ODP	kg CFC11 eq	6.85E-7	6.22E-9	5.75E-9	6.97E-7	4.10E-9	5.81E-8	2.05E-10	-3.50E-7	4.09E-7
AP	mol H+ eq	6.22E-3	1.63E-4	2.60E-4	6.65E-3	1.01E-4	9.98E-4	4.92E-6	-2.69E-3	5.06E-3
EP-fw	kg P eq	5.77E-5	2.84E-7	6.80E-7	5.87E-5	1.46E-7	7.15E-6	6.23E-9	-2.59E-5	4.01E-5
EP-m	kg N eq	1.06E-3	5.76E-5	7.65E-5	1.20E-3	3.63E-5	2.43E-4	3.02E-6	-4.70E-4	1.01E-3
EP-T	mol N eq	1.11E-2	6.35E-4	8.20E-4	1.25E-2	4.00E-4	2.68E-3	1.97E-5	-5.08E-3	1.06E-2
POCP	kg NMVOC eq	3.98E-3	1.81E-4	2.32E-4	4.39E-3	1.14E-4	8.03E-4	6.71E-6	-1.73E-3	3.58E-3
ADP-mm	kg Sb eq	3.38E-5	7.14E-7	1.08E-6	3.56E-5	4.60E-7	3.92E-6	4.88E-9	-1.42E-5	2.57E-5
ADP-f	MJ	3.34E+1	4.25E-1	5.51E-1	3.44E+1	2.73E-1	2.73E+0	1.49E-2	-1.70E+1	2.04E+1
WDP	m3 depriv.	2.08E+0	1.52E-3	3.72E-1	2.45E+0	8.38E-4	1.07E-1	8.30E-5	-1.01E+0	1.55E+0
PM	disease inc.	4.64E-8	2.53E-9	4.03E-9	5.30E-8	1.61E-9	1.24E-8	1.02E-10	-1.75E-8	4.96E-8
IR	kBq U-235 eq	6.66E-2	1.78E-3	9.94E-4	6.94E-2	1.19E-3	9.55E-3	6.83E-5	-3.26E-2	4.76E-2
ETP-fw	CTUe	2.09E+1	3.79E-1	9.19E-1	2.22E+1	2.22E-1	2.07E+1	2.28E-1	-1.01E+1	3.33E+1
HTP-c	CTUh	8.50E-10	1.23E-11	3.13E-11	8.94E-10	7.89E-12	3.00E-10	3.91E-13	-3.74E-10	8.28E-10
HTP-nc	CTUh	2.69E-8	4.14E-10	9.59E-10	2.83E-8	2.64E-10	7.25E-9	4.38E-11	-1.29E-8	2.29E-8
SQP	Pt	1.31E+1	3.69E-1	4.12E-2	1.35E+1	2.34E-1	1.69E+0	3.78E-2	-3.78E+0	1.17E+1

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.91E+0	5.32E-3	1.66E+0	4.57E+0	3.92E-3	1.96E-1	5.44E-4	-1.13E+0	3.64E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.91E+0	5.32E-3	1.66E+0	4.57E+0	3.92E-3	1.96E-1	5.44E-4	-1.13E+0	3.64E+0
PENRE	MJ	3.59E+1	4.51E-1	5.97E-1	3.69E+1	2.90E-1	2.90E+0	1.58E-2	-1.83E+1	2.18E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.59E+1	4.51E-1	5.97E-1	3.69E+1	2.90E-1	2.90E+0	1.58E-2	-1.83E+1	2.18E+1
PET	MJ	3.88E+1	4.56E-1	2.26E+0	4.15E+1	2.94E-1	3.10E+0	1.63E-2	-1.94E+1	2.55E+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	2.25E-2	5.17E-5	8.77E-3	3.13E-2	3.09E-5	2.93E-3	1.82E-5	-1.05E-2	2.38E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.51E-5	1.08E-6	7.71E-7	2.70E-5	6.99E-7	4.39E-6	1.79E-8	-1.41E-5	1.80E-5
NHWD	kg	1.21E-1	2.69E-2	1.11E-3	1.49E-1	1.69E-2	1.01E-1	6.77E-2	-5.43E-2	2.81E-1
RWD	kg	5.85E-5	2.79E-6	1.39E-6	6.27E-5	1.86E-6	1.02E-5	9.70E-8	-2.87E-5	4.61E-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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