

Environmental Profile

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

Ecochain v3.5.80



Product: 3004638 - PVC Electro Pipe CR 1 1/4" 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	0.19	0	0.01	0.2	0	0.07	0	-0.1	0.18
ADPE	kg Sb-eq	4.81E-5	1.02E-6	1.51E-6	5.06E-5	6.43E-7	5.46E-6	6.80E-9	-1.98E-5	3.69E-5
ADPF	kg Sb-eq	2.12E-2	2.94E-4	4.05E-4	2.19E-2	1.81E-4	1.92E-3	9.58E-6	-1.13E-2	1.28E-2
GWP	kg CO2-eq	1.71E+0	4.00E-2	7.20E-2	1.82E+0	2.47E-2	6.55E-1	6.19E-3	-9.51E-1	1.56E+0
ODP	kg CFC-11-eq	9.92E-7	7.10E-9	6.77E-9	1.01E-6	4.57E-9	7.84E-8	2.30E-10	-4.90E-7	5.99E-7
POCP	kg ethene-eq	1.07E-3	2.41E-5	3.17E-5	1.12E-3	1.48E-5	1.51E-4	1.63E-6	-4.90E-4	7.99E-4
AP	kg SO2-eq	6.60E-3	1.76E-4	2.83E-4	7.06E-3	1.06E-4	1.11E-3	5.12E-6	-3.10E-3	5.18E-3
EP	kg PO4 3--eq	7.94E-4	3.46E-5	4.46E-5	8.73E-4	2.12E-5	1.68E-4	1.99E-6	-3.79E-4	6.85E-4
HTP	kg 1,4-DB-eq	6.62E-1	1.68E-2	2.72E-2	7.06E-1	1.05E-2	2.96E-1	5.31E-4	-3.00E-1	7.13E-1
FAETP	kg 1,4-DB-eq	1.45E-2	4.92E-4	1.11E-3	1.61E-2	3.09E-4	4.45E-3	1.63E-4	-6.57E-3	1.44E-2
MAETP	kg 1,4-DB-eq	4.21E+1	1.77E+0	4.52E+0	4.84E+1	1.10E+0	1.46E+1	1.98E-1	-1.93E+1	4.50E+1
TETP	kg 1,4-DB-eq	4.62E-3	5.95E-5	1.69E-3	6.37E-3	3.74E-5	1.05E-3	1.76E-6	-2.18E-3	5.29E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.60E+0	4.04E-2	8.49E-2	1.72E+0	2.49E-2	8.30E-1	7.21E-3	-9.80E-1	1.61E+0
GWP-f	kg CO2 eq	1.76E+0	4.03E-2	6.64E-2	1.86E+0	2.48E-2	6.60E-1	7.21E-3	-9.73E-1	1.58E+0
GWP-b	kg CO2 eq	-1.57E-1	1.86E-5	1.44E-2	-1.42E-1	1.51E-5	1.69E-1	9.24E-6	-6.78E-3	2.05E-2
GWP-luluc	kg CO2 eq	1.44E-3	1.48E-5	4.05E-3	5.50E-3	8.79E-6	2.99E-4	1.91E-7	-6.52E-4	5.16E-3
ODP	kg CFC11 eq	9.78E-7	8.90E-9	8.03E-9	9.95E-7	5.73E-9	8.08E-8	2.85E-10	-4.85E-7	5.96E-7
AP	mol H+ eq	7.96E-3	2.34E-4	3.62E-4	8.56E-3	1.42E-4	1.39E-3	6.85E-6	-3.75E-3	6.35E-3
EP-fw	kg P eq	7.74E-5	4.07E-7	9.50E-7	7.87E-5	2.04E-7	9.94E-6	8.67E-9	-3.60E-5	5.29E-5
EP-m	kg N eq	1.35E-3	8.24E-5	1.07E-4	1.54E-3	5.06E-5	3.40E-4	4.21E-6	-6.58E-4	1.28E-3
EP-T	mol N eq	1.47E-2	9.09E-4	1.15E-3	1.67E-2	5.58E-4	3.75E-3	2.74E-5	-7.12E-3	1.39E-2
POCP	kg NMVOC eq	5.08E-3	2.59E-4	3.23E-4	5.66E-3	1.60E-4	1.12E-3	9.35E-6	-2.42E-3	4.53E-3
ADP-mm	kg Sb eq	4.81E-5	1.02E-6	1.51E-6	5.06E-5	6.43E-7	5.46E-6	6.80E-9	-1.98E-5	3.69E-5
ADP-f	MJ	4.52E+1	6.08E-1	7.69E-1	4.66E+1	3.81E-1	3.80E+0	2.07E-2	-2.37E+1	2.71E+1
WDP	m3 depriv.	2.94E+0	2.18E-3	5.20E-1	3.47E+0	1.17E-3	1.49E-1	1.15E-4	-1.40E+0	2.22E+0
PM	disease inc.	6.00E-8	3.62E-9	5.62E-9	6.93E-8	2.24E-9	1.74E-8	1.42E-10	-2.46E-8	6.44E-8
IR	kBq U-235 eq	9.55E-2	2.55E-3	1.39E-3	9.94E-2	1.67E-3	1.33E-2	9.52E-5	-4.53E-2	6.93E-2
ETP-fw	CTUe	2.97E+1	5.42E-1	1.28E+0	3.15E+1	3.10E-1	2.87E+1	3.17E-1	-1.42E+1	4.67E+1
HTP-c	CTUh	1.21E-9	1.76E-11	4.38E-11	1.27E-9	1.10E-11	4.20E-10	5.43E-13	-5.21E-10	1.18E-9
HTP-nc	CTUh	3.81E-8	5.93E-10	1.34E-9	4.00E-8	3.69E-10	1.01E-8	6.08E-11	-1.80E-8	3.26E-8
SQP	Pt	2.09E+1	5.28E-1	5.75E-2	2.15E+1	3.26E-1	2.37E+0	5.27E-2	-5.79E+0	1.85E+1

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.46E+0	7.62E-3	2.32E+0	6.79E+0	5.47E-3	2.73E-1	7.57E-4	-1.68E+0	5.39E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.46E+0	7.62E-3	2.32E+0	6.79E+0	5.47E-3	2.73E-1	7.57E-4	-1.68E+0	5.39E+0
PENRE	MJ	4.85E+1	6.46E-1	8.33E-1	4.99E+1	4.05E-1	4.05E+0	2.20E-2	-2.55E+1	2.89E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.85E+1	6.46E-1	8.33E-1	4.99E+1	4.05E-1	4.05E+0	2.20E-2	-2.55E+1	2.89E+1
PET	MJ	5.29E+1	6.54E-1	3.15E+0	5.67E+1	4.10E-1	4.32E+0	2.27E-2	-2.72E+1	3.43E+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	3.15E-2	7.41E-5	1.22E-2	4.39E-2	4.32E-5	4.08E-3	2.54E-5	-1.46E-2	3.34E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.60E-5	1.54E-6	1.08E-6	3.86E-5	9.75E-7	6.13E-6	2.50E-8	-1.96E-5	2.62E-5
NHWD	kg	1.73E-1	3.86E-2	1.55E-3	2.13E-1	2.36E-2	1.42E-1	9.45E-2	-7.56E-2	3.98E-1
RWD	kg	8.39E-5	3.99E-6	1.93E-6	8.99E-5	2.59E-6	1.43E-5	1.35E-7	-4.00E-5	6.69E-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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