

Environmental Profile

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

Ecochain v3.5.64



Product: 3075982 - PE100 Cab.prot. BK/RD 160x14,6 L=100 CL
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: <https://www.wavin.com/en-en>

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
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 - DE - Westeregeln - 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	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.35E+3	2.58E+1	2.73E+1	1.41E+3	1.78E+1	5.78E+2	9.83E+0	-8.90E+2	1.12E+3
GWP-f	kg CO2 eq	1.35E+3	2.58E+1	2.25E+1	1.40E+3	1.77E+1	5.78E+2	9.83E+0	-8.87E+2	1.11E+3
GWP-b	kg CO2 eq	6.59E+0	1.19E-2	2.28E+0	8.88E+0	1.08E-2	-7.10E-1	7.38E-3	-3.36E+0	4.83E+0
GWP-luluc	kg CO2 eq	4.03E-1	9.46E-3	2.57E+0	2.98E+0	6.28E-3	9.97E-2	1.41E-4	-2.02E-1	2.88E+0
ODP	kg CFC11 eq	7.38E-5	5.70E-6	2.97E-6	8.25E-5	4.09E-6	1.30E-5	2.10E-7	-4.26E-5	5.72E-5
AP	mol H+ eq	5.03E+0	1.50E-1	1.33E-1	5.31E+0	1.01E-1	5.45E-1	5.00E-3	-2.46E+0	3.51E+0
EP-fw	kg P eq	2.22E-2	2.60E-4	5.08E-4	2.30E-2	1.46E-4	2.88E-3	6.50E-6	-1.10E-2	1.50E-2
EP-m	kg N eq	8.41E-1	5.28E-2	2.75E-2	9.21E-1	3.62E-2	1.59E-1	3.54E-3	-4.49E-1	6.70E-1
EP-T	mol N eq	9.37E+0	5.82E-1	2.76E-1	1.02E+1	3.98E-1	1.75E+0	2.03E-2	-4.99E+0	7.40E+0
POCP	kg NMVOC eq	4.49E+0	1.66E-1	7.95E-2	4.73E+0	1.14E-1	5.52E-1	7.96E-3	-2.33E+0	3.08E+0
ADP-mm	kg Sb eq	1.21E-2	6.54E-4	6.53E-4	1.34E-2	4.59E-4	2.16E-3	5.02E-6	-5.73E-3	1.03E-2
ADP-f	MJ	4.79E+4	3.89E+2	2.64E+2	4.86E+4	2.72E+2	1.73E+3	1.53E+1	-2.66E+4	2.40E+4
WDP	m3 depriv.	1.03E+3	1.39E+0	1.49E+2	1.18E+3	8.36E-1	3.40E+1	7.01E-2	-5.17E+2	7.01E+2
PM	disease inc.	4.78E-5	2.32E-6	1.19E-6	5.14E-5	1.60E-6	8.97E-6	1.05E-7	-1.94E-5	4.26E-5
IR	kBq U-235 eq	4.13E+1	1.63E+0	7.18E-1	4.37E+1	1.19E+0	5.21E+0	7.14E-2	-1.61E+1	3.41E+1
ETP-fw	CTUe	8.62E+3	3.47E+2	6.43E+2	9.61E+3	2.21E+2	1.96E+3	1.35E+1	-3.86E+3	7.94E+3
HTP-c	CTUh	3.53E-7	1.13E-8	2.39E-8	3.88E-7	7.87E-9	2.33E-7	3.72E-10	-1.84E-7	4.45E-7
HTP-nc	CTUh	8.37E-6	3.80E-7	6.14E-7	9.36E-6	2.64E-7	2.94E-6	8.58E-9	-4.11E-6	8.47E-6
SQP	Pt	1.82E+3	3.38E+2	2.57E+1	2.18E+3	2.33E+2	1.38E+3	3.93E+1	-8.44E+2	2.99E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.72E+2	4.87E+0	1.38E+3	2.16E+3	3.91E+0	8.53E+1	6.06E-1	-3.85E+2	1.87E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.72E+2	4.87E+0	1.38E+3	2.16E+3	3.91E+0	8.53E+1	6.06E-1	-3.85E+2	1.87E+3
PENRE	MJ	5.14E+4	4.13E+2	2.83E+2	5.21E+4	2.89E+2	1.84E+3	1.62E+1	-2.87E+4	2.55E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.14E+4	4.13E+2	2.83E+2	5.21E+4	2.89E+2	1.84E+3	1.62E+1	-2.87E+4	2.55E+4
PET	MJ	5.22E+4	4.18E+2	1.67E+3	5.43E+4	2.93E+2	1.93E+3	1.69E+1	-2.91E+4	2.74E+4
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	1.56E+1	4.74E-2	3.54E+0	1.92E+1	3.08E-2	9.99E-1	1.89E-2	-7.90E+0	1.24E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.37E-3	9.87E-4	4.33E-4	7.79E-3	6.96E-4	2.82E-3	1.84E-5	-7.82E-3	3.50E-3
NHWD	kg	4.34E+1	2.47E+1	5.42E-1	6.86E+1	1.69E+1	8.50E+1	6.75E+1	-2.17E+1	2.16E+2
RWD	kg	4.51E-2	2.56E-3	1.03E-3	4.87E-2	1.85E-3	6.60E-3	1.00E-4	-1.49E-2	4.23E-2
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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