

Environmental Profile

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

Ecochain v3.5.71



Product: 3039220 - Threshold PP Outlet Adaptor BK 40
 Unit: 1 piece
 Manufacturer: Wavin - UK - Chippenham - Verified

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 09-02-2023
 End of validity: 09-02-2028
 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 - UK - Chippenham - 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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

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	7.99E-2	2.11E-3	1.26E-2	9.46E-2	6.06E-4	4.63E-2	2.85E-4	-4.65E-2	9.53E-2
GWP-f	kg CO2 eq	8.06E-2	2.11E-3	1.25E-2	9.52E-2	6.05E-4	4.63E-2	2.85E-4	-4.64E-2	9.60E-2
GWP-b	kg CO2 eq	-6.69E-4	1.20E-6	7.58E-5	-5.92E-4	3.68E-7	-2.37E-5	2.47E-7	-1.12E-4	-7.27E-4
GWP-luluc	kg CO2 eq	3.80E-5	7.74E-7	1.43E-5	5.31E-5	2.14E-7	3.62E-6	5.06E-9	-6.87E-6	5.00E-5
ODP	kg CFC11 eq	2.93E-9	4.84E-10	7.44E-10	4.16E-9	1.40E-10	5.16E-10	7.17E-12	-3.42E-9	1.41E-9
AP	mol H+ eq	3.18E-4	1.47E-5	7.61E-5	4.09E-4	3.45E-6	2.32E-5	1.72E-7	-9.52E-5	3.40E-4
EP-fw	kg P eq	1.74E-6	1.69E-8	1.86E-7	1.94E-6	4.98E-9	1.05E-7	2.29E-10	-3.79E-7	1.67E-6
EP-m	kg N eq	5.50E-5	4.91E-6	1.20E-5	7.19E-5	1.23E-6	7.36E-6	1.10E-7	-1.87E-5	6.19E-5
EP-T	mol N eq	6.13E-4	5.42E-5	1.37E-4	8.04E-4	1.36E-5	8.12E-5	6.96E-7	-2.06E-4	6.94E-4
POCP	kg NMVOC eq	2.78E-4	1.53E-5	4.81E-5	3.42E-4	3.89E-6	2.48E-5	2.61E-7	-8.90E-5	2.82E-4
ADP-mm	kg Sb eq	8.16E-7	5.28E-8	4.15E-7	1.28E-6	1.57E-8	8.10E-8	1.75E-10	-2.12E-7	1.17E-6
ADP-f	MJ	2.59E+0	3.22E-2	1.39E-1	2.76E+0	9.29E-3	6.48E-2	5.24E-4	-1.20E+0	1.64E+0
WDP	m3 depriv.	5.65E-2	9.65E-5	3.47E-3	6.00E-2	2.85E-5	1.25E-3	3.36E-6	-1.78E-2	4.35E-2
PM	disease inc.	2.88E-9	1.85E-10	5.46E-10	3.61E-9	5.47E-11	3.56E-10	3.60E-12	-7.21E-10	3.31E-9
IR	kBq U-235 eq	2.05E-3	1.41E-4	2.52E-4	2.44E-3	4.06E-5	1.98E-4	2.42E-6	-5.53E-4	2.13E-3
ETP-fw	CTUe	7.04E-1	2.59E-2	4.48E-1	1.18E+0	7.55E-3	7.76E-2	4.39E-4	-1.47E-1	1.12E+0
HTP-c	CTUh	1.99E-11	9.45E-13	1.75E-11	3.84E-11	2.69E-13	1.21E-11	1.33E-14	-6.43E-12	4.44E-11
HTP-nc	CTUh	5.60E-10	3.05E-11	5.40E-10	1.13E-9	9.00E-12	1.32E-10	2.86E-13	-1.68E-10	1.10E-9
SQP	Pt	2.02E-1	2.66E-2	5.60E-2	2.85E-1	7.95E-3	5.18E-2	1.34E-3	-3.46E-2	3.12E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.05E-2	4.51E-4	1.05E+0	1.11E+0	1.33E-4	3.12E-3	1.99E-5	-1.30E-2	1.10E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.05E-2	4.51E-4	1.05E+0	1.11E+0	1.33E-4	3.12E-3	1.99E-5	-1.30E-2	1.10E+0
PENRE	MJ	2.77E+0	3.42E-2	1.47E-1	2.96E+0	9.87E-3	6.90E-2	5.56E-4	-1.30E+0	1.74E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.77E+0	3.42E-2	1.47E-1	2.96E+0	9.87E-3	6.90E-2	5.56E-4	-1.30E+0	1.74E+0
PET	MJ	2.83E+0	3.46E-2	1.19E+0	4.06E+0	1.00E-2	7.21E-2	5.76E-4	-1.31E+0	2.83E+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	1.05E-3	3.56E-6	1.13E-4	1.17E-3	1.05E-6	4.07E-5	6.43E-7	-2.65E-4	9.44E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.61E-7	8.02E-8	3.88E-7	8.29E-7	2.38E-8	1.13E-7	6.38E-10	-5.76E-7	3.90E-7
NHWD	kg	4.23E-3	1.92E-3	9.65E-5	6.24E-3	5.76E-4	4.39E-3	2.30E-3	-8.77E-4	1.26E-2
RWD	kg	1.97E-6	2.19E-7	1.03E-7	2.30E-6	6.32E-8	2.54E-7	3.41E-9	-5.36E-7	2.08E-6
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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