

Environmental Profile

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

Ecochain v4.3.1



Product: 3040357 - PPr Socket GY 110
 Unit: 1 piece
 Manufacturer: Wavin - TR - Adana
 Location: Güzelevler Mahallesi
 Address: Girne Bulvarı 294
 01321 Adana
 Turkey

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 04-10-2022
 End of validity: 04-10-2027
 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 - TR - Adana (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-f** = EF Resource use, fossils [MJ]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **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	1.21E+0	8.89E-2	3.47E-2	1.34E+0	2.90E-2	9.86E-1	1.36E-2	-6.69E-1	1.70E+0
GWP-f	kg CO2 eq	1.21E+0	8.88E-2	3.35E-2	1.33E+0	2.90E-2	9.32E-1	1.36E-2	-7.30E-1	1.57E+0
GWP-b	kg CO2 eq	4.73E-3	-1.58E-5	1.17E-3	5.89E-3	1.76E-5	5.39E-2	1.19E-5	6.06E-2	1.20E-1
GWP-luluc	kg CO2 eq	6.80E-4	5.65E-5	2.05E-5	7.57E-4	1.02E-5	1.66E-4	2.35E-7	-5.70E-4	3.64E-4
ODP	kg CFC11 eq	2.93E-8	1.81E-8	2.69E-9	5.01E-8	6.67E-9	2.31E-8	3.43E-10	-3.18E-8	4.84E-8
AP	mol H+ eq	4.49E-3	2.49E-3	2.13E-4	7.19E-3	1.65E-4	9.61E-4	8.18E-6	-2.20E-3	6.12E-3
EP-fw	kg P eq	2.17E-5	4.46E-7	2.68E-6	2.48E-5	2.38E-7	4.84E-6	1.07E-8	-1.29E-5	1.70E-5
EP-m	kg N eq	7.98E-4	6.21E-4	7.44E-5	1.49E-3	5.90E-5	2.86E-4	5.30E-6	-4.07E-4	1.44E-3
EP-T	mol N eq	8.86E-3	6.90E-3	5.04E-4	1.63E-2	6.50E-4	3.14E-3	3.32E-5	-4.55E-3	1.55E-2
POCP	kg NMVOC eq	3.80E-3	1.80E-3	1.64E-4	5.76E-3	1.86E-4	9.89E-4	1.25E-5	-1.92E-3	5.03E-3
ADP-f	MJ	4.12E+1	1.17E+0	3.33E-1	4.27E+1	4.44E-1	2.95E+0	2.50E-2	-2.22E+1	2.39E+1
ADP-mm	kg Sb eq	1.85E-5	9.24E-7	2.66E-6	2.21E-5	7.49E-7	3.80E-6	8.27E-9	-4.88E-6	2.18E-5
WDP	m3 depriv.	8.33E-1	2.16E-3	6.92E-2	9.05E-1	1.36E-3	5.65E-2	1.36E-4	-4.59E-1	5.04E-1
PM	disease inc.	4.11E-8	3.59E-9	2.93E-9	4.76E-8	2.61E-9	1.57E-8	1.72E-10	-2.18E-8	4.43E-8
IR	kBq U-235 eq	2.40E-2	4.99E-3	1.00E-3	3.00E-2	1.94E-3	9.06E-3	1.16E-4	-1.39E-2	2.73E-2
ETP-fw	CTUe	1.44E+1	8.07E-1	1.80E+0	1.71E+1	3.61E-1	3.44E+0	2.09E-2	-7.41E+0	1.35E+1
HTP-c	CTUh	3.06E-10	4.84E-11	1.10E-10	4.64E-10	1.28E-11	4.17E-10	6.18E-13	-1.50E-10	7.44E-10
HTP-nc	CTUh	8.48E-9	7.04E-10	1.93E-9	1.11E-8	4.30E-10	5.04E-9	1.35E-11	-4.44E-9	1.22E-8
SQP	Pt	4.15E+0	3.15E-1	4.45E-1	4.91E+0	3.80E-1	2.33E+0	6.41E-2	-1.19E+1	-4.19E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.14E+0	8.94E-3	6.06E+0	7.21E+0	6.38E-3	1.43E-1	9.63E-4	-2.31E+0	5.04E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.14E+0	8.94E-3	6.06E+0	7.21E+0	6.38E-3	1.43E-1	9.63E-4	-2.31E+0	5.04E+0
PENRE	MJ	4.42E+1	1.24E+0	3.54E-1	4.58E+1	4.72E-1	3.14E+0	2.65E-2	-2.39E+1	2.55E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.42E+1	1.24E+0	3.54E-1	4.58E+1	4.72E-1	3.14E+0	2.65E-2	-2.39E+1	2.55E+1
PET	MJ	4.54E+1	1.25E+0	6.41E+0	5.30E+1	4.78E-1	3.29E+0	2.75E-2	-2.62E+1	3.06E+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	1.33E-2	7.56E-5	1.66E-3	1.51E-2	5.03E-5	1.69E-3	3.08E-5	-7.88E-3	8.94E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.38E-6	1.44E-6	2.14E-6	9.96E-6	1.14E-6	4.94E-6	3.02E-8	-6.14E-6	9.93E-6
NHWD	kg	5.91E-2	1.58E-2	3.98E-2	1.15E-1	2.75E-2	1.47E-1	1.10E-1	-2.14E-2	3.78E-1
RWD	kg	2.12E-5	8.04E-6	1.22E-6	3.05E-5	3.02E-6	1.16E-5	1.63E-7	-1.27E-5	3.26E-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	1.45E+0	1.45E+0	0	0	0	0	1.45E+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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