

Environmental Profile

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

Ecochain v4.3.1



Product: 3040349 - PPr Socket GY 20
 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	3.15E-2	1.83E-3	5.68E-4	3.39E-2	5.27E-4	3.38E-2	2.47E-4	-1.70E-2	5.14E-2
GWP-f	kg CO2 eq	3.16E-2	1.83E-3	5.49E-4	3.40E-2	5.26E-4	3.27E-2	2.47E-4	-1.82E-2	4.93E-2
GWP-b	kg CO2 eq	-1.53E-4	-1.07E-7	1.92E-5	-1.34E-4	3.20E-7	1.08E-3	2.12E-7	1.21E-3	2.16E-3
GWP-luluc	kg CO2 eq	2.15E-5	1.07E-6	3.35E-7	2.29E-5	1.86E-7	3.15E-6	4.71E-9	-1.14E-5	1.48E-5
ODP	kg CFC11 eq	9.86E-10	3.80E-10	4.40E-11	1.41E-9	1.21E-10	4.63E-10	6.25E-12	-1.08E-9	9.18E-10
AP	mol H+ eq	1.31E-4	4.36E-5	3.49E-6	1.79E-4	3.00E-6	2.01E-5	1.51E-7	-4.47E-5	1.57E-4
EP-fw	kg P eq	7.38E-7	1.08E-8	4.38E-8	7.92E-7	4.33E-9	9.23E-8	2.09E-10	-2.55E-7	6.34E-7
EP-m	kg N eq	2.30E-5	1.11E-5	1.22E-6	3.53E-5	1.07E-6	6.30E-6	9.34E-8	-8.77E-6	3.40E-5
EP-T	mol N eq	2.60E-4	1.23E-4	8.25E-6	3.92E-4	1.18E-5	6.95E-5	6.09E-7	-9.77E-5	3.76E-4
POCP	kg NMVOC eq	1.07E-4	3.22E-5	2.69E-6	1.42E-4	3.38E-6	2.14E-5	2.28E-7	-4.01E-5	1.27E-4
ADP-f	MJ	9.65E-1	2.48E-2	5.45E-3	9.95E-1	8.08E-3	5.71E-2	4.58E-4	-4.90E-1	5.70E-1
ADP-mm	kg Sb eq	6.18E-7	2.42E-8	4.36E-8	6.86E-7	1.36E-8	7.37E-8	1.57E-10	-9.25E-8	6.81E-7
WDP	m3 depriv.	2.24E-2	5.44E-5	1.13E-3	2.36E-2	2.48E-5	1.08E-3	4.01E-6	-8.89E-3	1.58E-2
PM	disease inc.	1.15E-9	9.09E-11	4.80E-11	1.29E-9	4.75E-11	3.14E-10	3.15E-12	-4.24E-10	1.23E-9
IR	kBq U-235 eq	7.20E-4	1.05E-4	1.64E-5	8.42E-4	3.53E-5	1.77E-4	2.09E-6	-2.87E-4	7.70E-4
ETP-fw	CTUe	4.41E-1	1.81E-2	2.95E-2	4.89E-1	6.56E-3	6.90E-2	3.83E-4	-1.51E-1	4.14E-1
HTP-c	CTUh	9.57E-12	9.60E-13	1.80E-12	1.23E-11	2.34E-13	1.05E-11	1.25E-14	-3.16E-12	1.99E-11
HTP-nc	CTUh	2.60E-10	1.69E-11	3.17E-11	3.09E-10	7.82E-12	1.12E-10	2.55E-13	-8.86E-11	3.40E-10
SQP	Pt	1.25E-1	9.67E-3	7.28E-3	1.42E-1	6.91E-3	4.51E-2	1.17E-3	-2.39E-1	-4.33E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.26E-2	2.10E-4	9.91E-2	1.32E-1	1.16E-4	2.72E-3	1.68E-5	-4.61E-2	8.87E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.26E-2	2.10E-4	9.91E-2	1.32E-1	1.16E-4	2.72E-3	1.68E-5	-4.61E-2	8.87E-2
PENRE	MJ	1.03E+0	2.63E-2	5.80E-3	1.07E+0	8.58E-3	6.08E-2	4.86E-4	-5.31E-1	6.06E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.03E+0	2.63E-2	5.80E-3	1.07E+0	8.58E-3	6.08E-2	4.86E-4	-5.31E-1	6.06E-1
PET	MJ	1.07E+0	2.65E-2	1.05E-1	1.20E+0	8.70E-3	6.35E-2	5.03E-4	-5.77E-1	6.95E-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	4.23E-4	1.88E-6	2.72E-5	4.52E-4	9.14E-7	3.44E-5	5.57E-7	-1.55E-4	3.33E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.96E-7	3.75E-8	3.51E-8	2.69E-7	2.07E-8	1.00E-7	5.67E-10	-2.09E-7	1.82E-7
NHWD	kg	2.06E-3	5.85E-4	6.50E-4	3.30E-3	5.01E-4	3.52E-3	2.00E-3	-4.35E-4	8.88E-3
RWD	kg	6.25E-7	1.69E-7	2.00E-8	8.14E-7	5.50E-8	2.28E-7	2.97E-9	-2.74E-7	8.26E-7
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	2.37E-2	2.37E-2	0	0	0	0	2.37E-2
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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