

Environmental Profile

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

Ecochain v4.3.1



Product: 3050914 - PPr Socket WT 40
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					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 A5 Assembly / Construction installation process												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]; **PENRT** = 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	1.12E-1	7.60E-3	2.65E-3	1.22E-1	2.37E-3	9.85E-2	1.12E-3	-6.01E-2	1.64E-1
GWP-f	kg CO2 eq	1.12E-1	7.60E-3	2.56E-3	1.22E-1	2.37E-3	9.36E-2	1.12E-3	-6.55E-2	1.54E-1
GWP-b	kg CO2 eq	-1.32E-4	-1.03E-6	8.95E-5	-4.36E-5	1.44E-6	4.86E-3	9.66E-7	5.47E-3	1.03E-2
GWP-luluc	kg CO2 eq	2.15E-4	4.70E-6	1.56E-6	2.21E-4	8.38E-7	1.38E-5	1.98E-8	-5.05E-5	1.85E-4
ODP	kg CFC11 eq	3.55E-9	1.56E-9	2.05E-10	5.31E-9	5.46E-10	1.95E-9	2.81E-11	-3.21E-9	4.62E-9
AP	mol H+ eq	5.12E-4	2.02E-4	1.63E-5	7.30E-4	1.35E-5	8.19E-5	6.73E-7	-1.87E-4	6.39E-4
EP-fw	kg P eq	2.37E-6	4.04E-8	2.05E-7	2.61E-6	1.95E-8	4.02E-7	8.97E-10	-1.11E-6	1.92E-6
EP-m	kg N eq	8.09E-5	5.06E-5	5.68E-6	1.37E-4	4.83E-6	2.47E-5	4.29E-7	-3.53E-5	1.32E-4
EP-T	mol N eq	8.67E-4	5.62E-4	3.85E-5	1.47E-3	5.32E-5	2.72E-4	2.72E-6	-3.94E-4	1.40E-3
POCP	kg NMVOC eq	3.70E-4	1.47E-4	1.26E-5	5.29E-4	1.52E-5	8.51E-5	1.02E-6	-1.64E-4	4.66E-4
ADP-f	MJ	3.66E+0	1.01E-1	2.54E-2	3.79E+0	3.64E-2	2.46E-1	2.05E-3	-1.92E+0	2.16E+0
ADP-mm	kg Sb eq	1.41E-6	8.66E-8	2.03E-7	1.70E-6	6.13E-8	3.18E-7	6.85E-10	-4.06E-7	1.67E-6
WDP	m3 depriv.	8.00E-2	1.99E-4	5.29E-3	8.54E-2	1.12E-4	4.68E-3	1.32E-5	-3.87E-2	5.15E-2
PM	disease inc.	4.07E-9	3.32E-10	2.24E-10	4.62E-9	2.14E-10	1.32E-9	1.41E-11	-1.85E-9	4.32E-9
IR	kBq U-235 eq	2.56E-3	4.30E-4	7.64E-5	3.06E-3	1.59E-4	7.58E-4	9.46E-6	-1.20E-3	2.79E-3
ETP-fw	CTUe	1.51E+0	7.12E-2	1.38E-1	1.72E+0	2.95E-2	2.90E-1	1.72E-3	-6.54E-1	1.38E+0
HTP-c	CTUh	4.36E-11	4.08E-12	8.38E-12	5.60E-11	1.05E-12	3.77E-11	5.23E-14	-1.30E-11	8.18E-11
HTP-nc	CTUh	9.19E-10	6.36E-11	1.48E-10	1.13E-9	3.52E-11	4.36E-10	1.12E-12	-3.80E-10	1.22E-9
SQP	Pt	4.55E-1	3.16E-2	3.40E-2	5.21E-1	3.11E-2	1.94E-1	5.25E-3	-1.07E+0	-3.15E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.19E-1	8.02E-4	4.62E-1	5.82E-1	5.22E-4	1.19E-2	7.78E-5	-2.06E-1	3.88E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.19E-1	8.02E-4	4.62E-1	5.82E-1	5.22E-4	1.19E-2	7.78E-5	-2.06E-1	3.88E-1
PENRE	MJ	3.93E+0	1.07E-1	2.70E-2	4.06E+0	3.86E-2	2.62E-1	2.18E-3	-2.07E+0	2.30E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.93E+0	1.07E-1	2.70E-2	4.06E+0	3.86E-2	2.62E-1	2.18E-3	-2.07E+0	2.30E+0
PET	MJ	4.05E+0	1.08E-1	4.90E-1	4.65E+0	3.91E-2	2.74E-1	2.25E-3	-2.28E+0	2.69E+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	1.39E-3	6.93E-6	1.27E-4	1.52E-3	4.12E-6	1.43E-4	2.52E-6	-6.72E-4	1.00E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.44E-6	1.34E-7	1.64E-7	1.74E-6	9.30E-8	4.18E-7	2.50E-9	-6.18E-7	1.64E-6
NHWD	kg	9.59E-3	1.73E-3	3.04E-3	1.44E-2	2.25E-3	1.30E-2	9.01E-3	-1.84E-3	3.68E-2
RWD	kg	2.37E-6	6.92E-7	9.35E-8	3.15E-6	2.47E-7	9.70E-7	1.34E-8	-1.11E-6	3.27E-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	1.11E-1	1.11E-1	0	0	0	0	1.11E-1
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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