

Environmental Profile

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

Ecochain v4.3.1



Product: 3050913 - PPr Socket WT 32
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]

Statement of Confidentiality

This document and supporting material contain confidential and proprietary business information of Wavin - TR - Adana. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - TR - Adana.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.97E-2	5.06E-3	1.70E-3	8.65E-2	1.58E-3	7.30E-2	7.43E-4	-4.29E-2	1.19E-1
GWP-f	kg CO2 eq	7.98E-2	5.06E-3	1.65E-3	8.65E-2	1.58E-3	7.03E-2	7.43E-4	-4.59E-2	1.13E-1
GWP-b	kg CO2 eq	-3.07E-4	-6.21E-7	5.76E-5	-2.50E-4	9.59E-7	2.69E-3	6.41E-7	3.02E-3	5.46E-3
GWP-luluc	kg CO2 eq	1.93E-4	3.10E-6	1.00E-6	1.97E-4	5.59E-7	9.21E-6	1.36E-8	-2.94E-5	1.77E-4
ODP	kg CFC11 eq	2.75E-9	1.04E-9	1.32E-10	3.92E-9	3.64E-10	1.30E-9	1.87E-11	-2.35E-9	3.26E-9
AP	mol H+ eq	3.95E-4	1.32E-4	1.05E-5	5.37E-4	9.00E-6	5.53E-5	4.51E-7	-1.24E-4	4.78E-4
EP-fw	kg P eq	1.78E-6	2.74E-8	1.32E-7	1.94E-6	1.30E-8	2.68E-7	6.10E-10	-6.91E-7	1.53E-6
EP-m	kg N eq	5.91E-5	3.31E-5	3.65E-6	9.59E-5	3.22E-6	1.68E-5	2.84E-7	-2.35E-5	9.27E-5
EP-T	mol N eq	6.30E-4	3.68E-4	2.47E-5	1.02E-3	3.55E-5	1.85E-4	1.82E-6	-2.62E-4	9.83E-4
POCP	kg NMVOC eq	2.69E-4	9.61E-5	8.07E-6	3.73E-4	1.01E-5	5.76E-5	6.82E-7	-1.10E-4	3.32E-4
ADP-f	MJ	2.55E+0	6.74E-2	1.64E-2	2.63E+0	2.42E-2	1.64E-1	1.37E-3	-1.32E+0	1.51E+0
ADP-mm	kg Sb eq	9.86E-7	5.92E-8	1.31E-7	1.18E-6	4.09E-8	2.11E-7	4.62E-10	-2.68E-7	1.16E-6
WDP	m3 depriv.	5.80E-2	1.36E-4	3.40E-3	6.16E-2	7.44E-5	3.13E-3	1.01E-5	-2.51E-2	3.97E-2
PM	disease inc.	2.96E-9	2.26E-10	1.44E-10	3.33E-9	1.43E-10	8.85E-10	9.43E-12	-1.18E-9	3.18E-9
IR	kBq U-235 eq	1.91E-3	2.87E-4	4.91E-5	2.25E-3	1.06E-4	5.06E-4	6.30E-6	-7.73E-4	2.09E-3
ETP-fw	CTUe	1.05E+0	4.78E-2	8.85E-2	1.18E+0	1.97E-2	1.94E-1	1.15E-3	-3.92E-1	1.01E+0
HTP-c	CTUh	3.57E-11	2.71E-12	5.39E-12	4.37E-11	7.01E-13	2.67E-11	3.59E-14	-8.49E-12	6.27E-11
HTP-nc	CTUh	6.98E-10	4.31E-11	9.50E-11	8.36E-10	2.35E-11	3.00E-10	7.53E-13	-2.44E-10	9.17E-10
SQP	Pt	3.18E-1	2.20E-2	2.18E-2	3.62E-1	2.07E-2	1.30E-1	3.50E-3	-5.99E-1	-8.31E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.26E-2	5.42E-4	2.97E-1	3.80E-1	3.48E-4	7.93E-3	5.13E-5	-1.17E-1	2.72E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.26E-2	5.42E-4	2.97E-1	3.80E-1	3.48E-4	7.93E-3	5.13E-5	-1.17E-1	2.72E-1
PENRE	MJ	2.74E+0	7.15E-2	1.74E-2	2.82E+0	2.57E-2	1.75E-1	1.45E-3	-1.42E+0	1.60E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.74E+0	7.15E-2	1.74E-2	2.82E+0	2.57E-2	1.75E-1	1.45E-3	-1.42E+0	1.60E+0
PET	MJ	2.82E+0	7.21E-2	3.15E-1	3.20E+0	2.61E-2	1.83E-1	1.51E-3	-1.54E+0	1.88E+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	4.71E-6	8.15E-5	1.13E-3	2.74E-6	9.64E-5	1.67E-6	-4.29E-4	8.05E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.27E-6	9.18E-8	1.05E-7	1.47E-6	6.20E-8	2.81E-7	1.68E-9	-4.53E-7	1.36E-6
NHWD	kg	8.03E-3	1.23E-3	1.95E-3	1.12E-2	1.50E-3	9.05E-3	6.01E-3	-1.19E-3	2.66E-2
RWD	kg	1.79E-6	4.61E-7	6.01E-8	2.31E-6	1.65E-7	6.48E-7	8.90E-9	-7.22E-7	2.41E-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	7.12E-2	7.12E-2	0	0	0	0	7.12E-2
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777