

Environmental Profile

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

Ecochain v3.5.71



Product: 3038726 - Irish Acorn Pb End Red Tee W 3/4X1/2X3/4
Unit: 1 piece
Manufacturer: Wavin - UK - Doncaster - 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 - Doncaster - 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					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-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	5.92E-1	7.94E-3	5.04E-2	6.50E-1	2.03E-3	7.00E-2	9.14E-4	-2.99E-1	4.24E-1
GWP-f	kg CO2 eq	5.91E-1	7.93E-3	4.75E-2	6.46E-1	2.03E-3	7.01E-2	9.14E-4	-2.98E-1	4.21E-1
GWP-b	kg CO2 eq	1.17E-3	4.58E-6	2.90E-3	4.08E-3	1.23E-6	-7.61E-5	9.19E-7	-6.30E-4	3.38E-3
GWP-luluc	kg CO2 eq	3.06E-5	2.88E-6	2.65E-5	5.99E-5	7.18E-7	1.16E-5	1.78E-8	-1.59E-6	7.06E-5
ODP	kg CFC11 eq	6.81E-9	1.82E-9	4.78E-9	1.34E-8	4.68E-10	1.67E-9	2.50E-11	-3.03E-9	1.25E-8
AP	mol H+ eq	2.73E-3	5.30E-5	1.53E-4	2.93E-3	1.16E-5	6.65E-5	6.19E-7	-1.12E-3	1.89E-3
EP-fw	kg P eq	6.70E-6	6.40E-8	4.13E-7	7.17E-6	1.67E-8	3.40E-7	8.19E-10	-2.53E-6	5.00E-6
EP-m	kg N eq	4.98E-4	1.79E-5	2.83E-5	5.44E-4	4.14E-6	1.99E-5	1.17E-6	-2.30E-4	3.39E-4
EP-T	mol N eq	5.07E-3	1.98E-4	2.91E-4	5.56E-3	4.56E-5	2.17E-4	2.46E-6	-2.32E-3	3.51E-3
POCP	kg NMVOC eq	1.93E-3	5.58E-5	9.25E-5	2.08E-3	1.30E-5	6.67E-5	8.97E-7	-8.87E-4	1.27E-3
ADP-mm	kg Sb eq	1.18E-5	2.00E-7	7.43E-7	1.28E-5	5.25E-8	2.49E-7	6.05E-10	-1.69E-6	1.14E-5
ADP-f	MJ	8.16E+0	1.21E-1	6.41E-1	8.92E+0	3.11E-2	1.98E-1	1.84E-3	-4.10E+0	5.05E+0
WDP	m3 depriv.	1.79E-1	3.65E-4	7.67E-3	1.87E-1	9.56E-5	4.28E-3	8.50E-6	-7.26E-2	1.18E-1
PM	disease inc.	2.35E-8	6.99E-10	1.12E-9	2.53E-8	1.83E-10	1.02E-9	1.25E-11	-1.02E-8	1.64E-8
IR	kBq U-235 eq	2.55E-3	5.29E-4	6.17E-4	3.70E-3	1.36E-4	6.01E-4	8.87E-6	-1.99E-4	4.24E-3
ETP-fw	CTUe	1.38E+0	9.76E-2	8.46E-1	2.32E+0	2.53E-2	3.27E-1	3.88E-3	-2.11E-1	2.47E+0
HTP-c	CTUh	1.20E-10	3.54E-12	3.42E-11	1.58E-10	9.00E-13	2.74E-11	4.87E-14	-2.37E-11	1.62E-10
HTP-nc	CTUh	1.92E-9	1.15E-10	7.47E-10	2.79E-9	3.01E-11	3.60E-10	1.56E-12	-5.07E-10	2.67E-9
SQP	Pt	3.70E-1	1.01E-1	1.12E-1	5.84E-1	2.66E-2	1.55E-1	4.67E-3	-1.95E-2	7.50E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.52E-2	1.71E-3	1.82E+0	1.91E+0	4.47E-4	1.00E-2	8.49E-5	-1.96E-2	1.90E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.52E-2	1.71E-3	1.82E+0	1.91E+0	4.47E-4	1.00E-2	8.49E-5	-1.96E-2	1.90E+0
PENRE	MJ	8.80E+0	1.28E-1	6.99E-1	9.62E+0	3.31E-2	2.11E-1	1.95E-3	-4.44E+0	5.43E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.80E+0	1.28E-1	6.99E-1	9.62E+0	3.31E-2	2.11E-1	1.95E-3	-4.44E+0	5.43E+0
PET	MJ	8.88E+0	1.30E-1	2.52E+0	1.15E+1	3.35E-2	2.21E-1	2.03E-3	-4.46E+0	7.32E+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	4.24E-3	1.35E-5	2.41E-4	4.49E-3	3.52E-6	1.40E-4	2.29E-6	-1.70E-3	2.94E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.01E-6	3.03E-7	5.66E-7	1.88E-6	7.96E-8	3.37E-7	2.19E-9	-5.59E-7	1.74E-6
NHWD	kg	2.47E-2	7.28E-3	2.66E-3	3.46E-2	1.93E-3	9.83E-3	8.01E-3	-2.61E-3	5.18E-2
RWD	kg	3.13E-6	8.24E-7	4.28E-7	4.38E-6	2.12E-7	7.52E-7	1.21E-8	-2.66E-7	5.09E-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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