

Environmental Profile

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

Ecochain v3.5.80



Product: 3079552 - EK PP-RCT Tee Reduced GY 75x63x75
Unit: 1 piece
Manufacturer: Wavin - CZ - Kostelec - Verified

Use the Ekoplastik System when you prefer an all plastic welded system or when you need pipes with larger diameters. The Ekoplastik system offers a maximum pipe diameter of 250 mm. Join pipes and fittings using a homogenous weld for secure and permanent connections.

LCA standard: NMD Bepalingsmethode 1.1 (2022)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 27-01-2023
End of validity: 27-01-2028
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 - CZ - Kostelec - 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

ECI = Environmental Costs Indicator [euro]; **ADPE** = Abiotic depletion potential for non-fossil resources [kg Sb-eq]; **ADPF** = Abiotic depletion potential for fossil resources [kg Sb-eq]; **GWP** = Global warming potential [kg CO2-eq]; **ODP** = Depletion potential of the stratospheric ozone layer [kg CFC-11-eq]; **POCP** = Formation potential of tropospheric ozone photochemical oxidants [kg ethene-eq]; **AP** = Acidification potential of land and water [kg SO2-eq]; **EP** = Eutrophication potential [kg PO4 3--eq]; **HTP** = Human toxicity potential [kg 1,4-DB-eq]; **FAETP** = Freshwater aquatic ecotoxicity potential [kg 1,4-DB-eq]; **MAETP** = Marine aquatic ecotoxicity potential [kg 1,4-DB-eq]; **TETP** = Terrestrial ecotoxicity potential [kg 1,4-DB-eq]; **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 SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.07	0.01	0.02	0.09	0	0.03	0	-0.04	0.08
ADPE	kg Sb-eq	1.30E-5	1.28E-6	5.48E-6	1.97E-5	2.74E-7	1.33E-6	3.03E-9	-3.39E-6	1.79E-5
ADPF	kg Sb-eq	1.38E-2	3.59E-4	4.07E-4	1.46E-2	7.71E-5	5.10E-4	4.22E-6	-7.61E-3	7.59E-3
GWP	kg CO2-eq	7.98E-1	4.89E-2	7.34E-2	9.20E-1	1.05E-2	3.16E-1	4.26E-3	-4.87E-1	7.63E-1
ODP	kg CFC-11-eq	1.84E-8	9.08E-9	1.28E-7	1.55E-7	1.95E-9	6.77E-9	1.01E-10	-1.90E-8	1.45E-7
POCP	kg ethene-eq	6.59E-4	2.94E-5	5.34E-5	7.42E-4	6.30E-6	5.09E-5	9.70E-7	-3.25E-4	4.75E-4
AP	kg SO2-eq	2.52E-3	2.11E-4	5.11E-4	3.24E-3	4.52E-5	2.60E-4	2.23E-6	-1.22E-3	2.32E-3
EP	kg PO4 3--eq	2.41E-4	4.21E-5	6.55E-5	3.48E-4	9.02E-6	4.59E-5	9.69E-7	-1.25E-4	2.79E-4
HTP	kg 1,4-DB-eq	1.27E-1	2.09E-2	8.94E-2	2.37E-1	4.49E-3	1.03E-1	3.33E-4	-6.18E-2	2.84E-1
FAETP	kg 1,4-DB-eq	3.60E-3	6.13E-4	3.23E-3	7.44E-3	1.32E-4	2.27E-3	3.61E-4	-1.66E-3	8.54E-3
MAETP	kg 1,4-DB-eq	8.44E+0	2.19E+0	9.05E+0	1.97E+1	4.70E-1	5.18E+0	3.60E-1	-3.78E+0	2.19E+1
TETP	kg 1,4-DB-eq	5.72E-4	7.42E-5	4.73E-3	5.37E-3	1.59E-5	3.18E-4	5.44E-7	-4.08E-4	5.30E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.36E-1	4.94E-2	8.70E-2	9.72E-1	1.06E-2	3.25E-1	4.99E-3	-4.87E-1	8.26E-1
GWP-f	kg CO2 eq	8.32E-1	4.93E-2	7.03E-2	9.52E-1	1.06E-2	3.17E-1	4.99E-3	-5.05E-1	7.79E-1
GWP-b	kg CO2 eq	3.71E-3	3.00E-5	1.56E-2	1.94E-2	6.43E-6	8.21E-3	4.33E-6	1.80E-2	4.56E-2
GWP-luluc	kg CO2 eq	3.31E-4	1.75E-5	1.12E-3	1.47E-3	3.75E-6	6.00E-5	8.61E-8	-2.33E-4	1.30E-3
ODP	kg CFC11 eq	1.77E-8	1.14E-8	7.12E-8	1.00E-7	2.44E-9	8.01E-9	1.25E-10	-1.99E-8	9.09E-8
AP	mol H+ eq	3.04E-3	2.81E-4	6.46E-4	3.97E-3	6.03E-5	3.35E-4	2.99E-6	-1.48E-3	2.89E-3
EP-fw	kg P eq	1.34E-5	4.06E-7	2.34E-6	1.62E-5	8.71E-8	1.74E-6	3.93E-9	-7.12E-6	1.09E-5
EP-m	kg N eq	5.18E-4	1.01E-4	1.19E-4	7.38E-4	2.16E-5	9.83E-5	1.93E-6	-2.66E-4	5.94E-4
EP-T	mol N eq	5.82E-3	1.11E-3	1.48E-3	8.41E-3	2.38E-4	1.08E-3	1.21E-5	-2.95E-3	6.79E-3
POCP	kg NMVOC eq	2.58E-3	3.17E-4	3.42E-4	3.24E-3	6.79E-5	3.41E-4	4.55E-6	-1.31E-3	2.35E-3
ADP-mm	kg Sb eq	1.30E-5	1.28E-6	5.48E-6	1.97E-5	2.74E-7	1.33E-6	3.03E-9	-3.39E-6	1.79E-5
ADP-f	MJ	2.90E+1	7.57E-1	1.80E+1	4.78E+1	1.62E-1	1.05E+0	9.14E-3	-1.57E+1	3.33E+1
WDP	m3 depriv.	5.81E-1	2.32E-3	3.13E-1	8.97E-1	4.98E-4	2.04E-2	5.05E-5	-2.97E-1	6.21E-1
PM	disease inc.	2.71E-8	4.45E-9	5.30E-9	3.69E-8	9.55E-10	5.50E-9	6.29E-11	-1.34E-8	3.00E-8
IR	kBq U-235 eq	1.58E-2	3.31E-3	2.11E-1	2.30E-1	7.10E-4	3.19E-3	4.23E-5	-8.43E-3	2.26E-1
ETP-fw	CTUe	7.00E+0	6.15E-1	6.03E+0	1.36E+1	1.32E-1	1.20E+0	7.65E-3	-3.41E+0	1.16E+1
HTP-c	CTUh	2.03E-10	2.19E-11	1.30E-10	3.55E-10	4.69E-12	1.47E-10	2.27E-13	-9.35E-11	4.13E-10
HTP-nc	CTUh	5.64E-9	7.33E-10	4.11E-9	1.05E-8	1.57E-10	1.78E-9	4.95E-12	-2.71E-9	9.72E-9
SQP	Pt	1.87E+0	6.48E-1	4.94E+0	7.45E+0	1.39E-1	8.35E-1	2.34E-2	-3.96E+0	4.49E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.87E-1	1.09E-2	2.55E+0	3.15E+0	2.33E-3	5.14E-2	3.52E-4	-8.35E-1	2.37E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.87E-1	1.09E-2	2.55E+0	3.15E+0	2.33E-3	5.14E-2	3.52E-4	-8.35E-1	2.37E+0
PENRE	MJ	3.11E+1	8.04E-1	1.81E+1	5.00E+1	1.72E-1	1.12E+0	9.70E-3	-1.70E+1	3.44E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.11E+1	8.04E-1	1.81E+1	5.00E+1	1.72E-1	1.12E+0	9.70E-3	-1.70E+1	3.44E+1
PET	MJ	3.17E+1	8.15E-1	2.06E+1	5.32E+1	1.75E-1	1.17E+0	1.01E-2	-1.78E+1	3.68E+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	8.98E-3	8.57E-5	1.01E-2	1.91E-2	1.84E-5	6.03E-4	1.13E-5	-4.76E-3	1.50E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.03E-6	1.94E-6	3.32E-7	6.30E-6	4.15E-7	1.73E-6	1.11E-8	-3.88E-6	4.57E-6
NHWD	kg	3.66E-2	4.69E-2	9.50E-3	9.30E-2	1.01E-2	5.17E-2	4.02E-2	-1.35E-2	1.82E-1
RWD	kg	1.38E-5	5.15E-6	4.97E-7	1.94E-5	1.10E-6	4.06E-6	5.96E-8	-7.65E-6	1.70E-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	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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