

Environmental Profile

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

Ecochain v3.5.80



Product: 3079546 - EK PP-RCT Tee Reduced GY 75x40x75
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	0.06	0.01	0.01	0.08	0	0.03	0	-0.04	0.08
ADPE	kg Sb-eq	1.20E-5	1.21E-6	5.03E-6	1.83E-5	2.61E-7	1.26E-6	2.88E-9	-3.19E-6	1.66E-5
ADPF	kg Sb-eq	1.32E-2	3.41E-4	3.76E-4	1.39E-2	7.34E-5	4.84E-4	4.02E-6	-7.23E-3	7.22E-3
GWP	kg CO2-eq	7.56E-1	4.64E-2	6.79E-2	8.70E-1	1.00E-2	3.01E-1	4.05E-3	-4.62E-1	7.23E-1
ODP	kg CFC-11-eq	1.70E-8	8.61E-9	1.17E-7	1.43E-7	1.85E-9	6.39E-9	9.61E-11	-1.78E-8	1.33E-7
POCP	kg ethene-eq	6.27E-4	2.78E-5	4.92E-5	7.04E-4	6.00E-6	4.82E-5	9.24E-7	-3.08E-4	4.51E-4
AP	kg SO2-eq	2.38E-3	2.00E-4	4.70E-4	3.05E-3	4.30E-5	2.46E-4	2.12E-6	-1.15E-3	2.19E-3
EP	kg PO4 3--eq	2.24E-4	3.99E-5	6.03E-5	3.24E-4	8.59E-6	4.34E-5	9.24E-7	-1.14E-4	2.63E-4
HTP	kg 1,4-DB-eq	1.19E-1	1.98E-2	8.25E-2	2.22E-1	4.28E-3	9.83E-2	3.18E-4	-5.75E-2	2.67E-1
FAETP	kg 1,4-DB-eq	3.22E-3	5.81E-4	2.98E-3	6.78E-3	1.25E-4	2.16E-3	3.44E-4	-1.45E-3	7.96E-3
MAETP	kg 1,4-DB-eq	7.88E+0	2.08E+0	8.33E+0	1.83E+1	4.48E-1	4.90E+0	3.43E-1	-3.52E+0	2.04E+1
TETP	kg 1,4-DB-eq	5.24E-4	7.03E-5	4.34E-3	4.93E-3	1.52E-5	3.03E-4	5.18E-7	-3.43E-4	4.91E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.92E-1	4.68E-2	8.04E-2	9.20E-1	1.01E-2	3.08E-1	4.75E-3	-4.66E-1	7.76E-1
GWP-f	kg CO2 eq	7.89E-1	4.68E-2	6.49E-2	9.01E-1	1.01E-2	3.02E-1	4.75E-3	-4.79E-1	7.39E-1
GWP-b	kg CO2 eq	3.45E-3	2.84E-5	1.45E-2	1.79E-2	6.12E-6	5.74E-3	4.13E-6	1.24E-2	3.61E-2
GWP-luluc	kg CO2 eq	2.88E-4	1.66E-5	1.03E-3	1.33E-3	3.57E-6	5.70E-5	8.19E-8	-1.89E-4	1.21E-3
ODP	kg CFC11 eq	1.62E-8	1.08E-8	6.54E-8	9.24E-8	2.32E-9	7.57E-9	1.19E-10	-1.87E-8	8.37E-8
AP	mol H+ eq	2.87E-3	2.66E-4	5.94E-4	3.73E-3	5.74E-5	3.17E-4	2.85E-6	-1.38E-3	2.72E-3
EP-fw	kg P eq	1.25E-5	3.85E-7	2.15E-6	1.50E-5	8.30E-8	1.65E-6	3.74E-9	-6.38E-6	1.04E-5
EP-m	kg N eq	4.85E-4	9.53E-5	1.10E-4	6.90E-4	2.05E-5	9.28E-5	1.84E-6	-2.48E-4	5.57E-4
EP-T	mol N eq	5.46E-3	1.05E-3	1.36E-3	7.87E-3	2.26E-4	1.02E-3	1.16E-5	-2.76E-3	6.38E-3
POCP	kg NMVOC eq	2.44E-3	3.00E-4	3.15E-4	3.06E-3	6.47E-5	3.23E-4	4.34E-6	-1.23E-3	2.22E-3
ADP-mm	kg Sb eq	1.20E-5	1.21E-6	5.03E-6	1.83E-5	2.61E-7	1.26E-6	2.88E-9	-3.19E-6	1.66E-5
ADP-f	MJ	2.76E+1	7.18E-1	1.66E+1	4.49E+1	1.55E-1	9.96E-1	8.71E-3	-1.50E+1	3.11E+1
WDP	m3 depriv.	5.53E-1	2.20E-3	2.88E-1	8.43E-1	4.75E-4	1.94E-2	4.75E-5	-2.76E-1	5.87E-1
PM	disease inc.	2.54E-8	4.22E-9	4.89E-9	3.45E-8	9.10E-10	5.21E-9	5.99E-11	-1.23E-8	2.84E-8
IR	kBq U-235 eq	1.48E-2	3.14E-3	1.94E-1	2.12E-1	6.76E-4	3.02E-3	4.03E-5	-7.74E-3	2.08E-1
ETP-fw	CTUe	6.05E+0	5.83E-1	5.54E+0	1.22E+1	1.26E-1	1.14E+0	7.29E-3	-2.89E+0	1.05E+1
HTP-c	CTUh	1.90E-10	2.07E-11	1.19E-10	3.30E-10	4.47E-12	1.39E-10	2.15E-13	-8.63E-11	3.87E-10
HTP-nc	CTUh	5.28E-9	6.95E-10	3.78E-9	9.76E-9	1.50E-10	1.69E-9	4.71E-12	-2.49E-9	9.11E-9
SQP	Pt	1.58E+0	6.14E-1	4.53E+0	6.73E+0	1.32E-1	7.93E-1	2.23E-2	-2.92E+0	4.76E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.19E-1	1.03E-2	2.34E+0	2.87E+0	2.22E-3	4.89E-2	3.35E-4	-6.41E-1	2.28E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.19E-1	1.03E-2	2.34E+0	2.87E+0	2.22E-3	4.89E-2	3.35E-4	-6.41E-1	2.28E+0
PENRE	MJ	2.96E+1	7.62E-1	1.66E+1	4.70E+1	1.64E-1	1.06E+0	9.24E-3	-1.61E+1	3.21E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.96E+1	7.62E-1	1.66E+1	4.70E+1	1.64E-1	1.06E+0	9.24E-3	-1.61E+1	3.21E+1
PET	MJ	3.02E+1	7.73E-1	1.89E+1	4.99E+1	1.67E-1	1.11E+0	9.58E-3	-1.68E+1	3.44E+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	8.49E-3	8.13E-5	9.26E-3	1.78E-2	1.75E-5	5.73E-4	1.07E-5	-4.36E-3	1.41E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.71E-6	1.84E-6	3.13E-7	5.86E-6	3.96E-7	1.64E-6	1.05E-8	-3.65E-6	4.25E-6
NHWD	kg	3.37E-2	4.45E-2	8.95E-3	8.72E-2	9.59E-3	4.91E-2	3.83E-2	-1.25E-2	1.72E-1
RWD	kg	1.29E-5	4.88E-6	4.69E-7	1.83E-5	1.05E-6	3.84E-6	5.68E-8	-7.01E-6	1.62E-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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