

Environmental Profile

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

Ecochain v3.5.80



Product: 3083478 - EK PP-RCT Tee Reduced GY 50x25x50
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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.02	0	0	0.02	0	0.01	0	-0.01	0.02
ADPE	kg Sb-eq	3.59E-6	3.37E-7	1.37E-6	5.30E-6	7.08E-8	3.52E-7	7.85E-10	-9.00E-7	4.82E-6
ADPF	kg Sb-eq	3.68E-3	9.49E-5	1.04E-4	3.88E-3	1.99E-5	1.34E-4	1.09E-6	-2.01E-3	2.02E-3
GWP	kg CO2-eq	2.16E-1	1.29E-2	1.88E-2	2.48E-1	2.72E-3	8.75E-2	1.10E-3	-1.31E-1	2.08E-1
ODP	kg CFC-11-eq	5.44E-9	2.40E-9	3.19E-8	3.97E-8	5.04E-10	1.80E-9	2.61E-11	-5.46E-9	3.66E-8
POCP	kg ethene-eq	1.78E-4	7.75E-6	1.35E-5	2.00E-4	1.63E-6	1.35E-5	2.51E-7	-8.61E-5	1.29E-4
AP	kg SO2-eq	6.92E-4	5.56E-5	1.28E-4	8.76E-4	1.17E-5	6.89E-5	5.77E-7	-3.30E-4	6.26E-4
EP	kg PO4 3--eq	6.92E-5	1.11E-5	1.65E-5	9.68E-5	2.33E-6	1.23E-5	2.50E-7	-3.61E-5	7.55E-5
HTP	kg 1,4-DB-eq	3.58E-2	5.53E-3	2.27E-2	6.41E-2	1.16E-3	2.72E-2	8.60E-5	-1.71E-2	7.54E-2
FAETP	kg 1,4-DB-eq	1.13E-3	1.62E-4	8.20E-4	2.11E-3	3.40E-5	6.24E-4	9.28E-5	-5.26E-4	2.33E-3
MAETP	kg 1,4-DB-eq	2.46E+0	5.78E-1	2.28E+0	5.31E+0	1.22E-1	1.43E+0	9.27E-2	-1.05E+0	5.91E+0
TETP	kg 1,4-DB-eq	1.70E-4	1.96E-5	1.18E-3	1.37E-3	4.12E-6	8.30E-5	1.41E-7	-1.38E-4	1.32E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.26E-1	1.30E-2	2.22E-2	2.61E-1	2.74E-3	9.14E-2	1.29E-3	-1.28E-1	2.29E-1
GWP-f	kg CO2 eq	2.25E-1	1.30E-2	1.79E-2	2.56E-1	2.74E-3	8.79E-2	1.29E-3	-1.36E-1	2.12E-1
GWP-b	kg CO2 eq	8.37E-4	7.91E-6	4.00E-3	4.85E-3	1.66E-6	3.56E-3	1.12E-6	7.95E-3	1.64E-2
GWP-luluc	kg CO2 eq	1.10E-4	4.61E-6	2.80E-4	3.94E-4	9.69E-7	1.56E-5	2.25E-8	-8.33E-5	3.28E-4
ODP	kg CFC11 eq	5.31E-9	3.00E-9	1.78E-8	2.61E-8	6.31E-10	2.13E-9	3.24E-11	-5.75E-9	2.32E-8
AP	mol H+ eq	8.38E-4	7.42E-5	1.62E-4	1.07E-3	1.56E-5	8.92E-5	7.75E-7	-4.00E-4	7.80E-4
EP-fw	kg P eq	3.91E-6	1.07E-7	5.90E-7	4.61E-6	2.25E-8	4.54E-7	1.02E-9	-2.13E-6	2.95E-6
EP-m	kg N eq	1.45E-4	2.65E-5	3.01E-5	2.02E-4	5.58E-6	2.64E-5	4.99E-7	-7.32E-5	1.61E-4
EP-T	mol N eq	1.63E-3	2.93E-4	3.72E-4	2.29E-3	6.15E-5	2.90E-4	3.14E-6	-8.15E-4	1.83E-3
POCP	kg NMVOC eq	7.06E-4	8.36E-5	8.63E-5	8.76E-4	1.76E-5	9.14E-5	1.18E-6	-3.52E-4	6.34E-4
ADP-mm	kg Sb eq	3.59E-6	3.37E-7	1.37E-6	5.30E-6	7.08E-8	3.52E-7	7.85E-10	-9.00E-7	4.82E-6
ADP-f	MJ	7.70E+0	2.00E-1	4.50E+0	1.24E+1	4.20E-2	2.76E-1	2.37E-3	-4.16E+0	8.56E+0
WDP	m3 depriv.	1.57E-1	6.14E-4	7.87E-2	2.36E-1	1.29E-4	5.31E-3	1.37E-5	-8.18E-2	1.60E-1
PM	disease inc.	7.55E-9	1.18E-9	1.34E-9	1.01E-8	2.47E-10	1.46E-9	1.63E-11	-3.79E-9	8.00E-9
IR	kBq U-235 eq	4.42E-3	8.74E-4	5.27E-2	5.80E-2	1.84E-4	8.42E-4	1.09E-5	-2.40E-3	5.66E-2
ETP-fw	CTUe	2.34E+0	1.62E-1	1.51E+0	4.01E+0	3.41E-2	3.19E-1	1.98E-3	-1.14E+0	3.23E+0
HTP-c	CTUh	5.69E-11	5.78E-12	3.27E-11	9.54E-11	1.21E-12	3.94E-11	5.91E-14	-2.63E-11	1.10E-10
HTP-nc	CTUh	1.58E-9	1.94E-10	1.03E-9	2.81E-9	4.07E-11	4.72E-10	1.28E-12	-7.70E-10	2.55E-9
SQP	Pt	6.46E-1	1.71E-1	1.23E+0	2.05E+0	3.60E-2	2.19E-1	6.07E-3	-1.62E+0	6.96E-1

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.87E-1	2.87E-3	6.36E-1	8.26E-1	6.03E-4	1.34E-2	9.07E-5	-3.23E-1	5.17E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.87E-1	2.87E-3	6.36E-1	8.26E-1	6.03E-4	1.34E-2	9.07E-5	-3.23E-1	5.17E-1
PENRE	MJ	8.26E+0	2.12E-1	4.52E+0	1.30E+1	4.46E-2	2.94E-1	2.51E-3	-4.48E+0	8.85E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.26E+0	2.12E-1	4.52E+0	1.30E+1	4.46E-2	2.94E-1	2.51E-3	-4.48E+0	8.85E+0
PET	MJ	8.45E+0	2.15E-1	5.15E+0	1.38E+1	4.52E-2	3.07E-1	2.60E-3	-4.81E+0	9.36E+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	2.49E-3	2.26E-5	2.53E-3	5.04E-3	4.76E-6	1.58E-4	2.91E-6	-1.36E-3	3.85E-3
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.16E-6	5.11E-7	9.02E-8	1.76E-6	1.07E-7	4.59E-7	2.87E-9	-1.11E-6	1.22E-6
NHWD	kg	1.07E-2	1.24E-2	2.57E-3	2.57E-2	2.60E-3	1.38E-2	1.04E-2	-3.78E-3	4.87E-2
RWD	kg	3.88E-6	1.36E-6	1.35E-7	5.38E-6	2.86E-7	1.07E-6	1.54E-8	-2.20E-6	4.56E-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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