

Environmental Profile

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

Ecochain v3.5.80



Product: 3024231 - PP-R Tee with Tap Connector GN 20x1/2" ;
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	0.29	0	0	0.29	0	0	0	-0.02	0.27
ADPE	kg Sb-eq	9.53E-4	2.63E-7	5.95E-7	9.54E-4	5.04E-8	1.60E-7	4.57E-10	-4.45E-4	5.09E-4
ADPF	kg Sb-eq	2.31E-3	9.93E-5	5.20E-5	2.46E-3	1.42E-5	5.20E-5	6.49E-7	-9.52E-4	1.57E-3
GWP	kg CO2-eq	2.35E-1	1.46E-2	9.32E-3	2.59E-1	1.93E-3	3.02E-2	4.11E-4	-8.31E-2	2.08E-1
ODP	kg CFC-11-eq	1.15E-8	2.55E-9	1.38E-8	2.78E-8	3.58E-10	7.20E-10	1.57E-11	-4.76E-9	2.42E-8
POCP	kg ethene-eq	6.86E-4	1.34E-5	6.32E-6	7.06E-4	1.16E-6	5.36E-6	1.10E-7	-8.26E-5	6.30E-4
AP	kg SO2-eq	1.32E-2	2.01E-4	5.72E-5	1.35E-2	8.32E-6	3.06E-5	3.45E-7	-1.04E-3	1.25E-2
EP	kg PO4 3--eq	7.31E-4	2.52E-5	7.60E-6	7.64E-4	1.66E-6	5.12E-6	1.16E-7	-9.65E-5	6.75E-4
HTP	kg 1,4-DB-eq	2.14E+0	7.09E-3	1.10E-2	2.16E+0	8.27E-4	1.04E-2	3.93E-5	-1.44E-1	2.02E+0
FAETP	kg 1,4-DB-eq	4.97E-2	1.61E-4	3.91E-4	5.02E-2	2.42E-5	2.54E-4	3.33E-5	-6.11E-3	4.44E-2
MAETP	kg 1,4-DB-eq	2.17E+2	6.43E-1	1.03E+0	2.19E+2	8.65E-2	5.68E-1	3.37E-2	-2.08E+1	1.99E+2
TETP	kg 1,4-DB-eq	5.88E-3	2.29E-5	5.09E-4	6.41E-3	2.93E-6	3.19E-5	7.19E-8	-4.05E-4	6.04E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.42E-1	1.47E-2	1.09E-2	2.68E-1	1.95E-3	3.12E-2	4.78E-4	-8.41E-2	2.17E-1
GWP-f	kg CO2 eq	2.42E-1	1.47E-2	8.78E-3	2.65E-1	1.95E-3	3.03E-2	4.78E-4	-8.52E-2	2.13E-1
GWP-b	kg CO2 eq	3.74E-4	3.13E-6	2.03E-3	2.40E-3	1.18E-6	8.42E-4	4.37E-7	1.18E-3	4.43E-3
GWP-luluc	kg CO2 eq	2.90E-4	7.34E-6	1.20E-4	4.18E-4	6.89E-7	6.28E-6	1.34E-8	-1.00E-4	3.24E-4
ODP	kg CFC11 eq	1.24E-8	3.20E-9	7.75E-9	2.34E-8	4.49E-10	8.51E-10	1.95E-11	-4.88E-9	1.98E-8
AP	mol H+ eq	1.51E-2	2.54E-4	7.22E-5	1.55E-2	1.11E-5	3.93E-5	4.61E-7	-1.25E-3	1.43E-2
EP-fw	kg P eq	1.20E-4	9.46E-8	2.71E-7	1.21E-4	1.60E-8	2.05E-7	5.82E-10	-1.02E-5	1.11E-4
EP-m	kg N eq	7.99E-4	6.78E-5	1.40E-5	8.81E-4	3.97E-6	1.10E-5	2.41E-7	-1.49E-4	7.47E-4
EP-T	mol N eq	1.16E-2	7.52E-4	1.67E-4	1.25E-2	4.38E-5	1.22E-4	1.82E-6	-2.05E-3	1.06E-2
POCP	kg NMVOC eq	3.18E-3	2.00E-4	3.97E-5	3.41E-3	1.25E-5	3.76E-5	6.23E-7	-5.24E-4	2.94E-3
ADP-mm	kg Sb eq	9.53E-4	2.63E-7	5.95E-7	9.54E-4	5.04E-8	1.60E-7	4.57E-10	-4.45E-4	5.09E-4
ADP-f	MJ	4.57E+0	2.09E-1	1.94E+0	6.72E+0	2.99E-2	1.07E-1	1.39E-3	-1.98E+0	4.88E+0
WDP	m3 depriv.	1.94E-1	5.11E-4	3.58E-2	2.30E-1	9.18E-5	1.87E-3	2.92E-5	-6.43E-2	1.68E-1
PM	disease inc.	3.53E-8	9.47E-10	6.32E-10	3.69E-8	1.76E-10	6.26E-10	9.38E-12	-5.29E-9	3.25E-8
IR	kBq U-235 eq	9.24E-3	9.08E-4	2.26E-2	3.27E-2	1.31E-4	3.44E-4	6.13E-6	-3.95E-3	2.93E-2
ETP-fw	CTUe	1.48E+2	1.56E-1	6.63E-1	1.49E+2	2.43E-2	1.53E-1	1.06E-3	-2.12E+1	1.28E+2
HTP-c	CTUh	2.15E-9	7.30E-12	1.51E-11	2.18E-9	8.64E-13	1.48E-11	2.92E-14	-4.74E-10	1.72E-9
HTP-nc	CTUh	1.73E-7	1.66E-10	4.58E-10	1.74E-7	2.89E-11	2.11E-10	7.07E-13	-3.00E-8	1.44E-7
SQP	Pt	2.41E+0	1.20E-1	5.33E-1	3.07E+0	2.56E-2	9.68E-2	3.30E-3	-8.30E-1	2.36E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.32E-1	2.38E-3	2.73E-1	8.07E-1	4.29E-4	6.16E-3	3.67E-5	-2.10E-1	6.04E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.32E-1	2.38E-3	2.73E-1	8.07E-1	4.29E-4	6.16E-3	3.67E-5	-2.10E-1	6.04E-1
PENRE	MJ	4.89E+0	2.22E-1	1.95E+0	7.06E+0	3.17E-2	1.14E-1	1.47E-3	-2.13E+0	5.08E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.89E+0	2.22E-1	1.95E+0	7.06E+0	3.17E-2	1.14E-1	1.47E-3	-2.13E+0	5.08E+0
PET	MJ	5.42E+0	2.24E-1	2.22E+0	7.87E+0	3.22E-2	1.20E-1	1.51E-3	-2.34E+0	5.69E+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	4.56E-3	1.87E-5	1.13E-3	5.71E-3	3.38E-6	5.78E-5	1.62E-6	-1.45E-3	4.32E-3
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.19E-4	4.01E-7	5.99E-8	1.19E-4	7.65E-8	1.90E-7	1.83E-9	-5.62E-5	6.36E-5
NHWD	kg	5.96E-2	8.11E-3	1.69E-3	6.94E-2	1.85E-3	5.13E-3	7.40E-3	-2.05E-2	6.32E-2
RWD	kg	7.82E-6	1.44E-6	8.97E-8	9.34E-6	2.03E-7	4.36E-7	9.07E-9	-3.24E-6	6.75E-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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