

Environmental Profile

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

Ecochain v3.5.71



Product: 3030714 - Hep20 Blanking Peg 15
Unit: 1 piece
Manufacturer: Wavin - UK - Doncaster - Verified

Suitable for various professional plumbing jobs. Hep20 is packed with unique features that make push-fit plumbing fitting easier quicker and more secure for installers. No additional equipment or tools required when installing or demounting fittings compared to others where a solder or glue is required. Just push the pipework into the fitting to create a watertight seal. A wide range of plastic fittings, plumbing pipes and tubes are available. It is the only system with joint recognition and se

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	7.65E-2	1.98E-4	5.00E-3	8.17E-2	2.63E-4	7.27E-3	1.14E-4	-3.72E-2	5.22E-2
GWP-f	kg CO2 eq	7.67E-2	1.97E-4	4.71E-3	8.16E-2	2.63E-4	7.28E-3	1.14E-4	-3.72E-2	5.21E-2
GWP-b	kg CO2 eq	-2.48E-4	1.20E-7	2.87E-4	3.85E-5	1.60E-7	-1.04E-5	1.15E-7	2.19E-5	5.03E-5
GWP-luluc	kg CO2 eq	4.66E-5	6.99E-8	2.64E-6	4.93E-5	9.32E-8	1.55E-6	2.23E-9	-1.96E-5	3.13E-5
ODP	kg CFC11 eq	9.41E-9	4.55E-11	4.73E-10	9.93E-9	6.07E-11	2.20E-10	3.12E-12	-4.63E-9	5.58E-9
AP	mol H+ eq	4.13E-4	1.12E-6	1.52E-5	4.29E-4	1.50E-6	8.63E-6	7.74E-8	-1.71E-4	2.69E-4
EP-fw	kg P eq	3.24E-6	1.62E-9	4.11E-8	3.29E-6	2.17E-9	4.53E-8	1.02E-10	-1.45E-6	1.88E-6
EP-m	kg N eq	6.54E-5	4.02E-7	2.81E-6	6.87E-5	5.37E-7	2.55E-6	1.47E-7	-2.93E-5	4.26E-5
EP-T	mol N eq	6.96E-4	4.43E-6	2.90E-5	7.30E-4	5.91E-6	2.79E-5	3.08E-7	-3.09E-4	4.55E-4
POCP	kg NMVOC eq	3.42E-4	1.27E-6	9.20E-6	3.52E-4	1.69E-6	8.65E-6	1.12E-7	-1.58E-4	2.05E-4
ADP-mm	kg Sb eq	1.06E-6	5.11E-9	7.41E-8	1.14E-6	6.81E-9	3.31E-8	7.56E-11	-3.93E-7	7.90E-7
ADP-f	MJ	1.67E+0	3.03E-3	6.35E-2	1.74E+0	4.04E-3	2.63E-2	2.30E-4	-8.21E-1	9.47E-1
WDP	m3 depriv.	4.63E-2	9.30E-6	7.62E-4	4.70E-2	1.24E-5	5.50E-4	1.06E-6	-2.07E-2	2.69E-2
PM	disease inc.	3.69E-9	1.78E-11	1.11E-10	3.82E-9	2.38E-11	1.36E-10	1.57E-12	-1.63E-9	2.34E-9
IR	kBq U-235 eq	1.93E-3	1.32E-5	6.12E-5	2.01E-3	1.77E-5	7.99E-5	1.11E-6	-7.92E-4	1.31E-3
ETP-fw	CTUe	3.37E+0	2.46E-3	8.43E-2	3.46E+0	3.28E-3	4.04E-2	4.85E-4	-1.60E+0	1.91E+0
HTP-c	CTUh	2.37E-10	8.76E-14	3.41E-12	2.41E-10	1.17E-13	3.66E-12	6.09E-15	-1.13E-10	1.32E-10
HTP-nc	CTUh	3.05E-9	2.93E-12	7.44E-11	3.13E-9	3.91E-12	4.69E-11	1.95E-13	-1.45E-9	1.73E-9
SQP	Pt	2.15E-1	2.59E-3	1.12E-2	2.29E-1	3.46E-3	2.07E-2	5.84E-4	-7.64E-2	1.77E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.52E-2	4.35E-5	1.82E-1	2.37E-1	5.80E-5	1.33E-3	1.06E-5	-2.16E-2	2.17E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.52E-2	4.35E-5	1.82E-1	2.37E-1	5.80E-5	1.33E-3	1.06E-5	-2.16E-2	2.17E-1
PENRE	MJ	1.79E+0	3.22E-3	6.93E-2	1.86E+0	4.29E-3	2.80E-2	2.44E-4	-8.80E-1	1.01E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.79E+0	3.22E-3	6.93E-2	1.86E+0	4.29E-3	2.80E-2	2.44E-4	-8.80E-1	1.01E+0
PET	MJ	1.84E+0	3.26E-3	2.51E-1	2.10E+0	4.35E-3	2.93E-2	2.54E-4	-9.02E-1	1.23E+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	1.18E-3	3.43E-7	2.39E-5	1.20E-3	4.57E-7	1.60E-5	2.86E-7	-5.24E-4	6.96E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.63E-7	7.75E-9	5.59E-8	8.26E-7	1.03E-8	4.36E-8	2.74E-10	-3.41E-7	5.39E-7
NHWD	kg	7.21E-3	1.88E-4	2.63E-4	7.66E-3	2.50E-4	1.27E-3	1.00E-3	-2.33E-3	7.85E-3
RWD	kg	1.69E-6	2.06E-8	4.23E-8	1.75E-6	2.75E-8	1.00E-7	1.52E-9	-6.86E-7	1.20E-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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