

This appendix refers to the EPD MD-21017-EN developed according to EN15804+A2:2019.

Results in the appendix communicates LCA results in the format described in EN15804+A1:2013 to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

**Declared product: 1 ton of geosynthetics (Belgian production site)**

ENVIRONMENTAL IMPACTS PER TON										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	2.12E+03	8.11E+01	1.86E+02	0.00E+00	6.06E-01	8.18E+00	0.00E+00	6.61E+01	-1.00E+02
ODP	[kg CFC11-eq.]	1.80E-08	1.88E-14	3.61E-08	0.00E+00	1.52E-16	2.04E-15	0.00E+00	2.19E-13	-2.28E-12
AP	[kg SO <sub>2</sub> -eq.]	3.20E+00	5.10E-01	1.87E-02	0.00E+00	2.21E-03	2.08E-02	0.00E+00	1.78E-01	-1.77E-01
EP	[kg PO <sub>4</sub> <sup>3-</sup> -eq.]	6.09E-01	7.90E-02	3.86E-03	0.00E+00	5.14E-04	4.93E-03	0.00E+00	1.91E-01	-2.33E-02
POCP	[kg ethene-eq.]	5.55E-01	-4.40E-02	1.38E-03	0.00E+00	2.13E-04	-7.25E-03	0.00E+00	2.06E-02	-1.54E-02
ADPE	[kg Sb-eq.]	3.86E-04	6.06E-06	-1.97E-07	0.00E+00	5.02E-08	6.74E-07	0.00E+00	4.96E-06	-2.50E-05
ADPF	[MJ]	7.75E+04	1.08E+03	6.65E+01	0.00E+00	8.21E+00	1.10E+02	0.00E+00	1.00E+03	-1.11E+03
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									

RESOURCE USE PER TON										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	4,44E+03	5.53E+01	1.35E+01	0.00E+00	4.78E-01	6.42E+00	0.00E+00	7.29E+01	-6.98E+02
PERM	[MJ]	3,20E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	4,76E+03	5.53E+01	1.35E+01	0.00E+00	4.78E-01	6.42E+00	0.00E+00	7.29E+01	-6.98E+02
PENRE	[MJ]	8,28E+04	1.09E+03	7.93E+01	0.00E+00	8.30E+00	1.11E+02	0.00E+00	1.04E+03	-1.64E+03
PENRM	[MJ]	4,64E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	[MJ]	1,29E+05	1.09E+03	7.93E+01	0.00E+00	8.30E+00	1.11E+02	0.00E+00	1.04E+03	-1.64E+03
SM	[kg]	0,00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	[MJ]	0,00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	[MJ]	0,00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m <sup>3</sup> ]	1,41E+01	6.48E-02	4.66E-01	0.00E+00	5.57E-04	7.48E-03	0.00E+00	1.27E-02	-7.57E-01
Caption	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Use of net fresh water									

WASTE CATEGORIES AND OUTPUT FLOWS PER TON										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	3,86E-05	4,41E-05	4,19E-07	0.00E+00	3,84E-07	5,16E-06	0.00E+00	3,79E-06	-9,12E-07
NHWD	[kg]	1,92E+01	1,65E-01	1,52E+01	0.00E+00	1,32E-03	1,77E-02	0.00E+00	9,96E+02	-2,07E+00
RWD	[kg]	1,89E+00	1,91E-03	3,01E-03	0.00E+00	1,53E-05	2,06E-04	0.00E+00	1,25E-02	-2,06E-01
CRU	[kg]	0,00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	1.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	[kg]	0.00E+00	0.00E+00	8.18E+01	0.00E+00	8.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									

Checked and approved by



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[Charlotte Merlin]  
Third party verifier of MD-21017-EN



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Martha Kathrine Sørensen  
EPD Danmark