

This appendix refers to the EPD MD-24004-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order 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.

Height Adjustment products, LDPE

ENVIRONMENTAL IMPACTS PER 1 kg Knudsen Kilen Height Adjustment products, LDPE										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
GWP	[kg CO <sub>2</sub> -eq.]	3.69E-01	1.03E-02	7.16E-01	1.10E+00	0.00E+00	4.23E-03	1.35E-01	2.65E-03	-1.62E-02
ODP	[kg CFC11- eq.]	1.78E-09	1.60E-15	1.23E-11	1.79E-09	0.00E+00	6.58E-16	2.00E-09	5.44E-15	-1.30E-13
AP	[kg SO <sub>2</sub> -eq.]	8.56E-04	1.11E-05	6.18E-04	1.49E-03	0.00E+00	4.56E-06	5.33E-05	6.68E-06	-1.95E-05
EP	[kg PO <sub>4</sub> <sup>3-</sup> - eq.]	1.16E-04	2.43E-06	1.20E-04	2.38E-04	0.00E+00	1.00E-06	6.88E-04	7.62E-06	-3.09E-06
POCP	[kg ethene- eq.]	5.94E-05	-1.13E-06	7.37E-05	1.32E-04	0.00E+00	-4.66E-07	6.21E-06	6.04E-07	-3.74E-06
ADPE	[kg Sb-eq.]	1.91E-07	6.90E-10	3.86E-08	2.30E-07	0.00E+00	2.84E-10	3.42E-08	7.59E-11	-1.36E-09
ADPF	[MJ]	3.79E+00	1.40E-01	1.23E+01	1.63E+01	0.00E+00	5.76E-02	1.88E-01	3.90E-02	-7.60E-01
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 1 kg Knudsen Kilen Height Adjustment products, LDPE										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
PERE	[MJ]	2.61E+00	1.04E-02	1.93E+00	4.55E+00	0.00E+00	4.26E-03	2.18E-02	3.71E-03	-7.20E-02
PERM	[MJ]	0.00E+00	0.00E+00	2.61E+00	2.61E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	[MJ]	2.61E+00	1.04E-02	4.54E+00	7.16E+00	0.00E+00	4.26E-03	2.18E-02	3.71E-03	-7.20E-02
PENRE	[MJ]	5.14E+00	1.43E-01	1.25E+01	1.78E+01	0.00E+00	5.87E-02	4.20E+01	1.78E+00	-7.63E-01
PENRM	[MJ]	4.36E+01	0.00E+00	2.39E+00	4.60E+01	0.00E+00	0.00E+00	-4.18E+01	-1.74E+00	0.00E+00
PENRT	[MJ]	4.88E+01	1.43E-01	1.49E+01	6.38E+01	0.00E+00	5.87E-02	2.08E-01	4.11E-02	-7.63E-01
SM	[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
RSF	[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
NRSF	[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
FW	[m <sup>3</sup> ]	3.11E-03	1.13E-05	2.30E-03	5.42E-03	0.00E+00	4.66E-06	5.28E-04	4.05E-07	-7.52E-05
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 1 kg Knudsen Kilen Height Adjustment products, LDPE										
Parameter	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
HWD	[kg]	-1.93E-10	4.42E-13	1.46E-08	1.44E-08	0.00E+00	1.82E-13	3.35E-13	3.46E-12	-5.36E-11
NHWD	[kg]	1.23E-01	2.18E-05	6.35E-03	1.29E-01	0.00E+00	8.96E-06	4.97E-04	3.98E-02	1.19E-03
RWD	[kg]	6.76E-04	2.67E-07	8.77E-04	1.55E-03	0.00E+00	1.10E-07	8.96E-07	4.86E-07	-1.54E-07
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]	0.00E+00	0.00E+00	2.84E-03	2.84E-03	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00
MER	[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
EEE	[MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	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	1.19E-02	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									

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