

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

100% recycled (PCR) Plastic Cable Drums

from

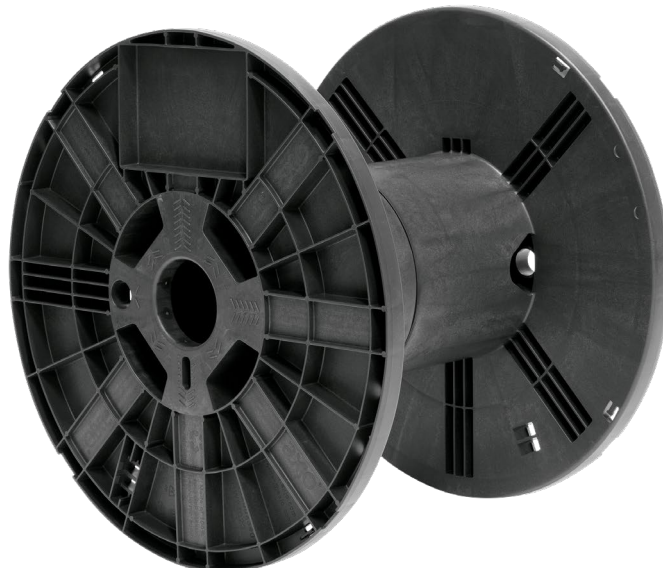
Axjo Group AB

EPD of multiple products, based on a representative product 400/300 light (dimension 400*175*75*337*301), product code 240269010. All included products are listed under product identification in the EPD.



Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES-0028656:001
Version date:	2026-04-13
Validity date:	2031-04-12

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com



GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): <i>Construction products 2019:14, version 2.0.1, valid until 2030-04-07, UN CPC code: 36990</i>
PCR review was conducted by: <i>The Technical Committee of the International EPD® System. See www.environdec.com for a list of members. Review chair: Rob Rouwette (chair), Noa Meron (cochair). The review panel may be contacted via the Secretariat www.environdec.com/contact</i>

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
☒ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: Viktor Hakkarainen, <i>CHM Analytics AB</i> , Approved by: International EPD® System 
Procedure for follow-up of data during EPD validity involves third party verifier:
☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Axjo Group AB

Address: Svarvargatan 6, 332 38 Gislaved

Contact: Victora Balika, victoria.balika@axjo.com

Address and contact information of the LCA practitioner commissioned by the EPD owner:

Miljögiraff AB

Bläsgatan 2, 414 63 Göteborg, Sweden

Oline Haggren, oline@miljogiraff.se

Hanna Andréasson, hannaandreasson@miljogiraff.se

Description of the organisation:

Axjo is a global leader in the development and manufacturing of packaging solutions made from recycled polymer materials. With core business areas in packaging solutions and circular solutions, Axjo produces plastic cable spools, drums, reels, and related products that support the cable and wire industry, as well as small storage solutions for various industries and needs.

Headquartered in Gislaved, Sweden, and operating worldwide, Axjo is part of the international distribution value chain, delivering circular, customer-oriented solutions that reduce environmental impact. Through in-house innovation, retake programs, and the use of 100% recycled plastics, Axjo helps drive the transition toward a more sustainable and efficient industry.

Axjo is committed to Zero Waste manufacturing and long-term value creation, working in close partnership with some of the world's leading industrial companies.

Product-related or management system-related certifications: ISO 9001, 14001 och 45001.

PRODUCT INFORMATION

Product name: Cable drum, 100% Recycled (PCR), used for cable packaging.

Product identification: This EPD include cable drums of different dimensions that are all made of 100% recycled (PCR) plastic. See table below for all included dimensions and their respective total weight.

Product code	Dimension of the cable drums (mm)	Total weight (kg/product)
228033010	Reel 280 * 110 * 33 * 165 * 145 mm.	0,632
228035015	Reel 280 * 110 * 70 * 165 * 145 mm	0,632
228037010	Reel 280 * 110 * 75 * 165 * 145 mm with U-hole	0,632
228037015	Reel 280 * 110 * 75 * 165 * 145 mm	0,632
228038010	Reel 280 * 110 * 56 * 165 * 145 mm	0,632
228040014	Reel 282 * 120 * 75 * 183 * 172 mm	0,614
228040016	Reel 280 * 180 * 75 * 181 * 176 mm	0,631
228040018	Reel 282 * 180 * 75 * 180 * 171 mm	0,6045
228040023	Reel 282 * 180 * 75 * 180 * 171 mm	0,6985
228042015	Reel 282 * 180 * 75 * 180 * 171 mm	0,7
228050010	Reel 280 * 120 * 101 * 181 * 176 mm	0,4045
228050015	Reel 280 * 180 * 101 * 181 * 176 mm	0,532
228067010	Reel 280 * 110 * 75 * 200 * 180 mm	0,723
228067019	Reel 280 * 110 * 75 * 200 * 180 mm with U-hole	0,723
228133010	Reel 280 * 110 * 33 * 250 * 230 mm.	0,858
228137010	Reel 280 * 110 * 75 * 250 * 230 mm.	0,8164
228177010	Reel 280 * 110 * 75 * 300 * 280 mm.	0,884
228240010	Reel 280 * 120 * 75 * 181 * 176 mm	0,495
228240015	Reel 282 * 120 * 75 * 183 * 172 mm	0,449
228242010	Reel 282 * 180 * 75 * 184 * 174 mm	0,6395
230155019	Reel 318 * 148 * 70 * 294 * 264 mm V-hole	1,005
230158010	Reel 318 * 148 * 70 * 294 * 264 mm	1,34
230158019	Reel 318 * 148 * 70 * 294 * 264 mm V-hole	1,005
230159010	Reel 318 * 148 * 75 * 294 * 264 mm	1,005
230159019	Reel 318 * 148 * 75 * 294 * 264 mm V-hole	1,005
230160019	Reel 318 * 148 * 75 * 294 * 264 mm V-hole	1,005
230165019	Reel 318 * 148 * 83 * 294 * 264 mm V-hole	1,005
233877010	Reel 338 * 115 * 111 * 380 * 372 mm	0,887
235570010	Reel 355 * 170 * 32 * 337 * 305 mm	1,775
235571010	Reel 355 * 171 * 38,5 * 337 * 305 mm	1,495
235572010	Reel 355 * 171 * 75 * 337 * 305 mm	1,479
235573010	Reel 355 * 171 * 75 * 337 * 305 mm	1,479
235575010	Reel 355 * 171 * 38,5 * 337 * 305 mm	1,775
235576019	Reel 355 * 171 * 75 * 337 * 305 mm / V-hole	1,479
236569010	Reel 365 * 130 * 80 * 320 * 310 mm	0,867
237515018	Reel 375 * 200 * 196 * 71 * 65 mm.	0,4215
237517018	Reel 375 * 200 * 196 * 118 * 110 mm / Special	0,5195
237538010	Reel 375 * 160 * 156 * 170 * 165 mm	0,649
237838010	Reel 378 * 160 * 156 * 170 * 161 mm	0,883
239073010	Reel 390 * 200 * 75 * 360 * 320 mm with caps	1,476
239074019	Reel 390 * 200 * 75 * 360 * 320 mm with caps / V-hole	1,476

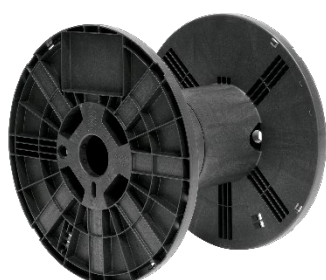
239084019	Reel 390 * 125 * 56 * 445 * 415 mm	1,965
239085010	Reel 390 * 125 * 56 * 445 * 415 mm	2,019
239085019	Reel 390 * 125 * 56 * 445 * 415 mm / NKT	1,965
239086010	Reel 390 * 125 * 75 * 445 * 415 mm	1,965
239086019	Reel 390 * 125 * 75 * 445 * 415 mm	2,019
239087010	Reel 390 * 125 * 83 * 445 * 415 mm	2,019
240068010	Reel 400 * 175 * 75 * 340 * 300 mm. V-hole	1,84
240068012	Reel 400 * 175 * 75 * 340 * 300 mm. V-hole	1,97
240068017	Reel 400 * 175 * 75 * 340 * 300 mm Light	1,97
240068019-L	Reel 400 * 175 * 75 * 340 * 300mm. V-hole	1,97
240068019-L	Reel 400 * 175 * 75 * 340 * 300mm. V-hole	1,97
240071011-L	Reel 400 * 175 * 75 * 340 * 300mm	1,743
240071015	Reel 400 * 175 * 75 * 340 * 300 mm.	1,97
240071015-L	Reel 400 * 175 * 75 * 340 * 300mm	1,8
240133010	Reel 400 * 175 * 36 * 146 * 106 mm	1,372
240146010	Reel 400 * 175 * 100 * 210 * 170 mm	1,454
240146015	Reel 400 * 175 * 100 * 210 * 170 mm	1,625
240147010	Reel 400 * 175 * 36 * 210 * 170 mm	1,454
240147015	Reel 400 * 175 * 36 * 210 * 170 mm	1,625
240148010	Reel 400 * 175 * 75 * 210 * 170 mm.	1,454
240157010	Reel 400 * 175 * 75 * 275 * 235 mm	1,454
240157019	Reel 400 * 175 * 75 * 275 * 235 mm V-hole	1,454
240158010	Reel 400 * 175 * 100 * 275 * 235 mm	1,454
240159010	Reel 400 * 175 * 36 * 275 * 235 mm	1,454
240160019	Reel 400 * 175 * 80 * 275 * 235 mm V-hole	1,454
240168010	Reel 400 * 175 * 56 * 318 * 300 mm. U-hole	1,9
240168019	Reel 400 * 175 * 75 * 340 * 300mm. V-hole	1,84
240169010	Reel 400 * 175 * 75 * 318 * 300 mm. U-hole	1,9
240170010	Reel 400 * 175 * 56 * 340 * 300 mm	1,8
240170015	Reel 400 * 175 * 56 * 340 * 300 mm	1,8
240170019	Reel 400 * 175 * 56 * 340 * 300 Windak	1,8
240171010	Reel 400 * 175 * 83 * 340 * 300 mm	1,743
240172010	Reel 400 * 175 * 75 * 340 * 300 mm	1,97
240172015	Reel 400 * 175 * 75 * 340 * 300 mm	1,97
240172019	Reel 400 * 175 * 75 * 340 * 300 mm V-hole	1,84
240173019	Reel 400 * 175 * 56 * 340 * 300 mm U-hole	1,743
240174819	Reel 400 * 175 * 80 * 340 * 300 mm. V-hole	1,84
240175019	Reel 400 * 175 * 66,75 * 343 * 300 mm	1,743
240176019	Reel 400 * 175 * 66 * 343 * 300 mm	1,743
240177010	Reel 400 * 202 * 75 * 380 * 340 mm	2,274
240177015	Reel 400 * 202 * 75 * 380 * 340 mm	2,272
240177019	Reel 400 * 202 * 75 * 370 * 330 mm V-hole	2,272
240178010	Reel 400 * 202 * 80 * 380 * 340 mm	2,274
240179019	Reel 400 * 150 * 75 * 440 * 400 mm. V-hole	2,398
240180019	Reel 400 * 175 * 75 * 340 * 300 mm	1,97
240182019	Reel 400 * 202 * 75 * 440 * 400 mm. V-hole	2,356
240183019	Reel 400 * 202 * 75 * 440 * 400 mm / V-hole	2,193
240184019	Reel 400 * 202 * 75 * 440 * 400 mm / V-hole	2,193
240184819	Reel 400 * 202 * 82 * 440 * 400 mm V-hole	2,193
240185019	Reel 400 * 202 * 82 * 440 * 400 mm	2,193

240250019	Reel 400 * 150 * 75 * 256 * 220 mm / V-hole	1,618
240252019	Reel 400 * 150 * 80 * 256 * 220 mm / V-hole	1,618
240268010	Reel 400 * 175 * 76 * 337 * 301 mm / V-hole	1,858
240269010	Reel 400 * 175 * 76 * 337 * 301 mm / V-hole (representative product)	1,858
240270019	Reel 400 * 175 * 76 * 337 * 301 mm / V-hole	1,8
240275015	Reel 400 * 150 * 75 * 346 * 310 mm / V-hole	2,04
240275019	Reel 400 * 150 * 75 * 346 * 310 mm / V-hole	1,815
240275019-15	Reel 400 * 150 * 75 * 346 * 310 mm / V-hole	2,04
240277019	Reel 400 * 150 * 75 * 346 * 310 mm / V-hole	1,815
240278019	Reel 400 * 150 * 83 * 346 * 310 mm / V-hole	1,815
240280119	Reel 400 * 150 * 56 * 455 * 415 mm U-hole	1,178
240281119	Reel 400 * 150 * 56 * 455 * 415 mm U-hole	2,356
240282019	Reel 400 * 150 * 80 * 455 * 415 mm U-hole	2,356
240285019	Reel 400 * 150 * 75 * 505 * 465 mm / V-hole	2,383
240287019	Reel 400 * 150 * 82 * 505 * 465 mm / V-hole	2,572
240469010	Reel 400 * 175 * 76 * 337 * 301 mm / V-hole / G4	1,858
243585010	Reel 435 * 125 * 56 * 445 * 415 mm	2,019
243587010	Reel 435 * 125 * 83 * 445 * 415 mm	2,019
243587019	Reel 435 * 125 * 83 * 445 * 415 mm	2,019
243590019	Reel 435 * 125 * 56 * 485 * 445 mm	2,483
243592019	Reel 435 * 125 * 56 * 485 * 445 mm	2,746
245170015	Reel 450 * 250 * 75 * 330 * 300 mm U-hole + labelplate	3,063
245170019	Reel 450 * 250 * 75 * 330 * 290 mm / V-hole	3,227
245171010	Reel 450 * 250 * 83 * 330 * 300 mm	3,063
245171019	Reel 450 * 250 * 83 * 330 * 300 mm U-hole	3,063
245172019	Reel 450 * 250 * 75 * 330 * 300 mm U-hole	3,063
245173019	Reel 450 * 250 * 82 * 330 * 290 mm / V-hole	3,227
248150019	Reel 480 * 202 * 75 * 380 * 340 mm	2,83
248151019	Reel 480 * 202 * 75 * 380 * 340 mm / V-hole * 4	2,645
248156010	Reel 480 * 202 * 75 * 380 * 340 mm	2,83
248157010	Reel 480 * 202 * 75 * 380 * 340 mm	2,83
248157015	Reel 480 * 202 * 75 * 380 * 340 mm	2,645
248158010	Reel 480 * 202 * 75 * 380 * 340 mm	2,83
248160010	Reel 480 * 202 * 75 * 380 * 340 mm	2,645
248175019	Reel 480 * 202 * 75 * 440 * 400 mm V-hole	2,646
248176019	Reel 480 * 202 * 75 * 440 * 400 mm V-hole	2,83
248177019	Reel 480 * 202 * 80 * 440 * 400 mm V-hole	2,83
250184011	Reel 500 * 150 * 56 * 444 * 404 mm U-hole	3,08
250184015	Reel 500 * 150 * 56 * 444 * 404 mm	3,08
250184016	Reel 500 * 150 * 56 * 444 * 404 mm. / Small V-hole	3,08
250184017	Reel 500 * 150 * 56 * 444 * 404 mm U-hole	3,417
250184018	Reel 500 * 150 * 56 * 444 * 404 mm U-hole	3,08
250184019	Reel 500 * 150 * 56 * 444 * 404 mm U-hole	3,08
250184030	Reel 500 * 150 * 56 * 444 * 404 mm	3,024
250185010	Reel 500 * 150 * 75 * 444 * 404 mm	3,417
250185015	Reel 500 * 150 * 75 * 444 * 404 mm U-hole	3,08
250186010	Reel 500 * 150 * 83 * 444 * 404 mm	3,08
250186019	Reel 500 * 150 * 83 * 444 * 404 mm V-hole	3,08
250187019	Reel 500 * 150 * 80 * 444 * 404 mm U-hole	3,417

250188019	Reel 500 * 150 * 56 * 444 * 404 mm / Big u-hole	1,7085
250189019	Reel 500 * 150 * 56 * 444 * 404 mm / Big u-hole	3,417
250190019	Reel 500 * 150 * 56 * 444 * 404 mm / Big u-hole	3,417
260126019	Reel 600 * 250 * 83 * 340 * 300 mm	4,803
260127010	Reel 600 * 250 * 56 * 340 * 300 mm	4,17
260127015	Reel 600 * 250 * 75 * 340 * 300 mm / Square-hole	4,803
260127019	Reel 600 * 250 * 75 * 340 * 300 mm / Square-hole	4,803
260128010	Reel 600 * 250 * 75 * 340 * 300 mm	4,17
260128019	Reel 600 * 250 * 75 * 340 * 300 mm V-hole	4,803
260129019	Reel 600 * 250 * 83 * 340 * 300 mm V-hole	4,803
260130010	Reel 600 * 250 * 83 * 340 * 300 mm	4,803
260130015	Reel 600 * 250 * 83 * 340 * 300 mm	4,803
260130019	Reel 600 * 250 * 83 * 340 * 300 mm V-hole	4,803
260131010	Reel 600 * 250 * 83 * 352 * 300 mm	4,344
260134010	Reel 600 * 250 * 83 * 352 * 300 mm	4,344
260149019	Reel 600 * 250 * 56 * 440 * 400 mm U-hole	4,95
260151010	Reel 600 * 250 * 75 * 440 * 400 mm	4,95
260152019	Reel 600 * 250 * 75 * 440 * 400 mm/ Square-hole	4,95
260153010	Reel 600 * 250 * 83 * 440 * 400 mm V-hole	5,287
260154019	Reel 600 * 250 * 80 * 440 * 400 mm U-hole	5,287
260157010	Reel 600 * 250 * 75 * 440 * 400 mm	4,95
260157019	Reel 600 * 250 * 75 * 440 * 400 mm U-hål	4,97
260158010	Reel 600 * 250 * 75 * 440 * 400 mm	4,97
260158015	Reel 600 * 250 * 75 * 440 * 400 mm U-hole	4,95
260158019	Reel 600 * 250 * 75 * 440 * 400 mm U-hole	5,287
260159019	Reel 600 * 250 * 75 * 440 * 400 mm	4,97
260160010	Reel 600 * 250 * 83 * 440 * 400 mm	4,95
260160019	Reel 600 * 250 * 83 * 440 * 400 mm U-hål	4,95
260161019	Reel 600 * 250 * 75 * 440 * 400 mm U-hole	5,287
260260010	Drum 600 * 250 * 56 * 470 * 400 mm	6,095
260260019	Drum 600 * 250 * 56 * 470 * 400 mm V-hole x 4	6,095
260262019	Drum 600 * 250 * 75 * 470 * 400 mm V-hole x 4	7,74
260263819	Drum 600 * 250 * 81 * 470 * 400 mm V-hole x 2	6,095
260265019	Drum 600 * 250 * 80 * 470 * 400 mm V-hole	6,095
260266019	Drum 600 * 250 * 75 * 470 * 400 mm V-hole	6,095
260267010	Drum 600 * 250 * 80 * 470 * 400 mm	6,095
260268010	Drum 600 * 250 * 83 * 470 * 400 mm	6,095
260269019	Drum 600 * 250 * 75 * 470 * 400 mm V-hole	6,095
260270010	Drum 600 * 250 * 75 * 470 * 400 mm	6,095
260270015	Drum 600 * 250 * 75 * 470 * 400 mm / Bigpack	6,095
260270018	Drum 600 * 250 * 75 * 470 * 400 mm	6,095
260270019	Drum 600 * 250 * 75 * 470 * 400 mm V-hole x 4	6,095
260271010	Drum 600 * 250 * 75 * 470 * 400 mm	6,095
260271013	Drum 600 * 250 * 75 * 470 * 400 mm	7,74
260271015	Drum 600 * 250 * 75 * 470 * 400 mm	6,095
260271018	Drum 600 * 250 * 75 * 470 * 400 mm	6,095
260273010	Drum 600 * 250 * 83 * 470 * 400 mm / Eldra	7,74
260274010	Drum 600 * 250 * 83 * 470 * 400 mm	6,095
260275019	Drum 600 * 250 * 75 * 470 * 400 mm / V-hole	7,74
260361019	Drum 600 * 250 * 75 * 470 * 400 mm / V-hole * 4	6,709

260362010	Drum 600 * 250 * 80 * 470 * 400 mm	6,709
260363019	Drum 600 * 250 * 75 * 470 * 400 mm / V-hole * 4	6,709
260364019	Drum 600 * 250 * 75 * 470 * 400 mm / V-hole * 4	6,709
260370019	Drum 600 * 250 * 83 * 470 * 400 mm / V-hole * 4	7,013
260474010	Drum 595 * 250 * 75 * 470 * 400 mm / G6	8,07525
270275010	Drum 700 * 325 * 75 * 580 * 500 mm	9,952
270279019	Drum 700 * 325 * 75 * 580 * 500 mm V-hole	9,952
270280019	Drum 700 * 325 * 75 * 580 * 500 mm V-hole	9,952
270284010	Drum 700 * 325 * 83 * 580 * 500 mm	9,952

Visual representation of the representative product:



UN CPC code: 36990

Product description: Axjo's wire & cable solutions feature next-generation plastic cable drums, engineered for durability, sustainability, and operational excellence. Designed to meet the needs of industries such as telecom, utilities, and energy – these products are optimized for both automated and manual handling.

Name and location of production site: All included products are produced at Axjo in Gislaved, Sweden.

Multiple products: All products included in this EPD are plastic cable drums, 100% recycled (PCR). 199 variations will be included in this product group, and they all consist solely out of 100% post-consumer recycled plastic. Each product has the same type of composition, and only the size and dimensions of the products differ. All included products share the same geographical scope and production site. The cable drum "400/300 light (dimension 400*175*75*337*301), product code 240269010" was chosen as representative product as it is the most sold of all the products in this product group. Since the products only consist of 1 material and because the declared unit is 1 kg of product, there will be no difference in the result for the included products of this group in this EPD. However, the total weight of the included products differs between around 0.4-10 kg.

CONTENT DECLARATION

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
PCR plastic (PP/PE)	1	100%	0%	0%
TOTAL	1	100%	0%	0%

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Stretch film (LDPE)	0.0036	0.36%	0
Pallet (wood)	0.08	8%	0.04
TOTAL	0.0836	8.36%	0.04

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂. No Substances of Very High Concern (SVHC) have been reported.

LCA INFORMATION

Declared unit: 1 kg cable drum

Time representativeness: The collected data is representative of the year 2024, except for electricity use which is based on 2025, and was obtained directly from the supplier.

Geographical scope: The supply of raw material A1 and transport A2 is modelled for Europe, the manufacturing A3 is modelled for Sweden. Module C and D scenarios are for modelled for Europe.

Database(s) and LCA software used: Ecoinvent 3.11 and SimaPro Craft 10.3.0.1.

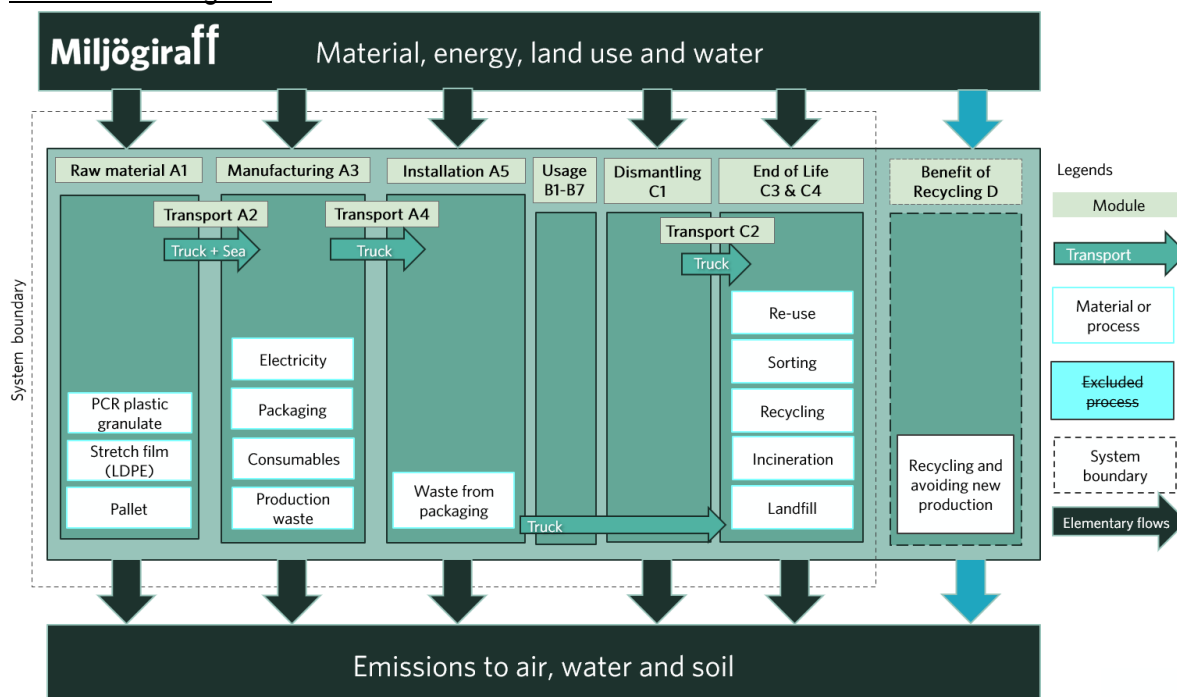
LCIA method: The LCIA method follows the standard for Construction Products EN 15804:2012+A2:2019/AC:2021. EN 15804:2012+A2:2019/AC:2021 uses the impact categories and characterization factors of the LCIA methods used in Environmental Footprint 3.1 (EF 3.1), with the only difference that biogenic carbon dioxide uptake is calculated as -1 and biogenic carbon dioxide emissions as +1, where EF 3.1 calculates this as 0 and 0, respectively.

Cut-off criteria: The cut-off criteria established by the PCR is 1% of all material and energy flows to a single unit process and 5% of total inflows (mass and energy) per module. No cut-offs exceeding this limit have been made.

In this study, the infrastructure and capital goods are included in the LCA analysis since it is not possible within reasonable effort to subtract the data on infrastructure/capital goods.

Description of system boundaries: Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and A4-A5 and B1-B7). However, since the product is a passive product, there will be no environmental impact during the use phase.

Process flow diagram:



More information:

(A1-A2) The plastic used in Axjo's cable drums is sourced from multiple suppliers and consists entirely of recycled material. The recycled plastic is represented with 50% from the dataset "Polyethylene, pellets, recycled {RER} | treatment of waste polyethylene, recycling | Cut-off, U" and 50% from the dataset "Polypropylene, pellets, recycled {RER} | treatment of waste polypropylene, recycling | Cut-off, U". Both of these datasets are regionalized to Swedish electricity mix and Swedish heat, and the GWP-GHG intensity is 609 kg CO₂ eq./tonne. The plastic raw material is transported by truck to Gislaved and is modelled using an average distance estimated between the various suppliers resulting in 11.8 km.

(A3) The cable drums are manufactured at Axjo's facility in Gislaved, Sweden, where recycled plastic is melted and moulded into the final products. Electricity use amounts to 1.259 kWh per kg of produced material, and no direct emissions occur. Lubricants are used as consumables and allocated based on annual production volumes. Internal plastic scrap (1.07–2.4%) is fully recycled in-house, while other waste generated at the factory is allocated by mass and modelled using representative ecoinvent datasets. The cable drum is packaged using stretch film and a single-use pallet.

Axjo use certified nuclear electricity, and it is represented by the dataset "*Electricity, high voltage {SE} | electricity production, nuclear, boiling water reactor | Cut-off, U*", adding 7% transmission losses, impact from transition network for medium voltage, and input and emission of Sulfur hexafluoride used in high and medium voltage switchgear. The climate footprint of the electricity mix is 0.00339 kg CO₂-eq per kWh.

Mass-based allocation was applied to shared site-level flows (electricity, waste, consumables), as no joint multi-output processes were identified and economic allocation was not relevant.

(A4) The finished cable drums are transported to an average customer in Wuppertal, Germany, by diesel truck, EURO 6, with a total transport distance of 970 km.

(A5) Installation is assumed to be manual and does not cause additional environmental impacts. The only impacts reported in this module are from end-of-life treatment of the packaging materials, in accordance with the waste scenarios in Module C.

(B1-B7) Cable drums are passive products and therefore, there are no environmental impacts during the use phase.

(C1-C4) After use the product is transported to waste processing. In the C module, default values provided by the PCR 2019:14 v.2.0.1 were used for demolition/deconstruction (C1) as no specific data was obtained. The default values for transport distances to waste treatment (C2) were also used, 80 km for materials not to be incinerated and 130 km for materials to be incinerated. The transport is modelled using a diesel truck, 16-32 metric ton, EURO5.

For the waste treatment (C3-C4), the relevant end-of-life scenario has been represented with a European case. Recycling rates for different materials have been adjusted according to post-consumer non-packaging recycling rates (R2) used in the Circular footprint formula of PEF, as found in Annex C¹. The remaining waste is assumed to be incinerated (54%) and landfilled (46%), according to the European average scenario stated in PEF Annex C.

¹ R2 values, available at <https://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>

Axjo have a take back system which take back and re-uses a share of produced products that can both be reused directly or grinded down as new raw material. This results in a reduction of the amount of the product which is treated in end-of-life.

As the end-of-life scenario is a mix of re-use, recycling, incineration and landfill, a 100% scenario for each waste scenario will also be declared as per PCR rules. In the 100% scenarios, the end-of-life weight will not take account for the take back system and thus use the end-of-life weight of declared unit 1kg. For the 100% re-use scenario, it was assumed that the product is sent back to Gislaved using the same transport scenario as for A4 transport of finished goods and with no further processing steps. The results for the 100% scenarios can be found in "Additional LCA results".

(D) Module D accounts for the potential environmental benefits or burdens resulting from material recycling and energy recovery during incineration.

Data quality summary according to EN 15941:

The EPD is based on data collected by Axjo from their site in Gislaved, Sweden over one year from 2024 except for electricity use which is based on 2025 as this provides a more accurate depiction of Axjo manufacturing. The EPD is representative of the production of Cable drums made from 100% recycled (PCR) plastic, produced in Gislaved, Sweden. Primary data is collected directly from supplier and production site which is complemented with representative secondary data from the Ecoinvent database v.3.11. The end-of-life stage of the EPD follow a European scenario. The quality of the relevant data used for the EPD using EN 15804:2012+A2:2019, Annex E, E.1, is in terms of geographical representativeness very good and good, technical representativeness very good, good and fair, and for time representativeness very good, good and fair. The reason for using the datasets with fair technology representativeness is that they were stated to be "unknown" but had very good time representativeness. The relevant data assessed included no other poor or very poor data.

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	EUR	EUR	SE	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR	EUR
Share of primary data	3%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Declaration of data sources, reference years, data categories, and share of primary data:

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Waste plastic, mixture {RER} market group for waste plastic, mixture Cut-off, U	Collected data, Database	EPD Owner, Ecoinvent v3.11	2024	Representative secondary data	0%
Electricity	Collected data, Database	EPD Owner, Ecoinvent v3.11	2024	Primary data	1.9%
Transport	Collected data, Database	EPD Owner, Ecoinvent v3.11	2024	Primary data	1.1%
Other processes	Collected data, Database	EPD Owner, Ecoinvent v3.11	2024	Representative secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					3.0%

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results per 1 kg cable drum										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	6,9E-01	2,0E-01	1,4E-01	0,0E+00	3,9E-04	2,0E-02	1,1E+00	3,2E-03	8,2E-01
GWP-fossil	kg CO ₂ eq.	7,9E-01	2,0E-01	6,8E-03	0,0E+00	3,9E-04	2,0E-02	1,1E+00	3,2E-03	7,5E-01
GWP-biogenic	kg CO ₂ eq.	-1,1E-01	4,2E-05	1,3E-01	0,0E+00	4,3E-08	4,2E-06	1,4E-05	9,9E-07	5,3E-02
GWP-luluc	kg CO ₂ eq.	2,8E-03	6,6E-05	9,6E-07	0,0E+00	3,9E-08	6,6E-06	6,2E-06	5,7E-07	1,5E-02
ODP	kg CFC 11 eq.	5,0E-07	4,3E-09	6,2E-11	0,0E+00	5,7E-12	4,3E-10	3,3E-10	1,1E-10	7,9E-08
AP	mol H ⁺ eq.	1,9E-03	4,2E-04	1,8E-05	0,0E+00	3,4E-06	6,3E-05	2,4E-04	2,2E-05	-8,5E-04
EP-freshwater	kg P eq.	1,1E-05	1,5E-06	3,2E-08	0,0E+00	1,3E-09	1,5E-07	3,0E-07	1,7E-08	-1,7E-05
EP-marine	kg N eq.	3,8E-04	9,9E-05	8,2E-06	0,0E+00	1,6E-06	2,1E-05	1,1E-04	9,4E-06	1,5E-03
EP-terrestrial	mol N eq.	4,2E-03	1,1E-03	8,0E-05	0,0E+00	1,8E-05	2,3E-04	1,2E-03	1,0E-04	-1,9E-04
POCP	kg NMVOC eq.	1,8E-03	6,7E-04	2,6E-05	0,0E+00	5,2E-06	9,5E-05	2,9E-04	3,8E-05	4,5E-03
ADP-minerals&metals*	kg Sb eq.	5,7E-06	6,7E-07	7,6E-09	0,0E+00	1,4E-10	6,6E-08	4,3E-08	3,7E-09	5,5E-06
ADP-fossil*	MJ	2,8E+01	2,8E+00	4,3E-02	0,0E+00	5,0E-03	2,8E-01	1,9E-01	8,0E-02	3,3E+01
WDP*	m ³	3,5E-01	1,1E-02	-2,1E-05	0,0E+00	1,1E-05	1,1E-03	4,8E-03	2,7E-04	1,0E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption									

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

Note: Biogenic carbon in packaging is balanced in A1–A3.

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.*

Additional mandatory and voluntary impact category indicators

Results per 1 kg cable drum

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP-GHG²	kg CO ₂ eq.	8,2E-01	2,0E-01	9,5E-03	0,0E+00	3,9E-04	2,0E-02	1,1E+00	3,2E-03	8,2E-01
PM	disease inc.	1,8E-08	1,5E-08	3,4E-10	0,0E+00	9,8E-11	1,6E-09	1,2E-09	5,6E-10	-2,1E-08
IR³	kBq U-235 eq	9,7E-01	1,2E-03	3,4E-05	0,0E+00	8,3E-07	1,2E-04	3,6E-04	2,9E-05	-1,9E-01
ETP – FW*	CTUe	3,2E+00	3,7E-01	1,7E-02	0,0E+00	2,7E-04	3,7E-02	2,2E+00	4,2E-03	-2,6E-01
HTP – C*	CTUh	4,4E-10	3,3E-11	1,5E-12	0,0E+00	3,9E-14	3,3E-12	5,9E-11	4,0E-13	-6,4E-10
HTP – NC*	CTUh	6,1E-08	1,8E-09	9,1E-11	0,0E+00	6,2E-13	1,7E-10	2,4E-09	1,1E-11	-4,6E-09
Land use, SQP*	Pt	4,3E+00	1,7E+00	4,0E-02	0,0E+00	3,3E-04	1,6E-01	4,1E-02	1,5E-01	-1,1E+02
Acronyms	GWP-GHG: Global Warming Potential, Greenhouse Gases, PM: Particulate Matter, IRP: Ionizing Radiation - Human Health, ETP-FW: Ecotoxicity Potential – Freshwater, HTP-C: Human Toxicity Potential – Cancer, HTP-NC: Human Toxicity Potential – Non-Cancer, SQP: Soil Quality Potential Index									

Additional voluntary indicators e.g. the voluntary indicators from EN 15804 or the global indicators according to ISO 21930:2017

Disclaimer: The results of the impact categories land use, human toxicity (cancer), human toxicity, non-cancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes. Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.*

² This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

³ This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use indicators

Results 1 kg cable drum										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	MJ	2,6E+00	4,6E-02	1,2E-03	0,0E+00	3,2E-05	4,6E-03	1,3E-02	1,6E-03	-2,9E+01
PERM	MJ	1,5E+00	0,0E+00	-1,5E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PERT	MJ	4,1E+00	4,6E-02	-1,5E+00	0,0E+00	3,2E-05	4,6E-03	1,3E-02	1,6E-03	-2,9E+01
PENRE	MJ	2,8E+01	3,0E+00	4,6E-02	0,0E+00	5,3E-03	2,9E-01	2,0E-01	8,5E-02	3,7E+01
PENRM	MJ	3,1E+01	0,0E+00	-1,1E-01	0,0E+00	0,0E+00	0,0E+00	-3,1E+01	0,0E+00	0,0E+00
PENRT	MJ	5,9E+01	3,0E+00	-6,6E-02	0,0E+00	5,3E-03	2,9E-01	-3,1E+01	8,5E-02	3,7E+01
SM	kg	1,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
RSF	MJ	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
NRSF	MJ	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
FW	m ³	8,9E-03	4,2E-04	3,2E-05	0,0E+00	3,7E-07	4,1E-05	1,7E-03	8,2E-05	-2,4E-02
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water									

Disclaimer: Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

Waste indicators

Results per 1 kg cable drum										
Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Non-hazardous waste disposed	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Radioactive waste disposed	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00

Output flow indicators

Results per 1 kg cable drum										
Indicator	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
Components for re-use	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	3,4E-02	0,0E+00	0,0E+00
Material for recycling	kg	7,8E-03	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Materials for energy recovery	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Exported energy, electricity	MJ	2,9E-01	0,0E+00	1,8E-01	0,0E+00	0,0E+00	0,0E+00	3,3E+00	0,0E+00	0,0E+00
Exported energy, thermal	MJ	6,8E-01	0,0E+00	4,2E-01	0,0E+00	0,0E+00	0,0E+00	7,7E+00	0,0E+00	0,0E+00

Additional LCA results (other environmental performance results) of the product(s)

100% Re-use Scenario for modules A5, C1-C4 & D

Mandatory impact category indicators according to EN 15804, per 1 kg cable drum

Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,4E-01	0,0E+00	1,1E-01	0,0E+00	0,0E+00	-4,2E-02
GWP-fossil	kg CO ₂ eq.	6,8E-03	0,0E+00	1,1E-01	0,0E+00	0,0E+00	-4,2E-02
GWP-biogenic	kg CO ₂ eq.	1,3E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
GWP-luluc	kg CO ₂ eq.	9,6E-07	0,0E+00	1,1E-04	0,0E+00	0,0E+00	-1,3E-04
ODP	kg CFC 11 eq.	6,2E-11	0,0E+00	2,0E-09	0,0E+00	0,0E+00	-1,0E-09
AP	mol H ⁺ eq.	1,8E-05	0,0E+00	3,8E-04	0,0E+00	0,0E+00	-2,3E-04
EP-freshwater	kg P eq.	3,2E-08	0,0E+00	3,0E-06	0,0E+00	0,0E+00	-3,9E-06
EP-marine	kg N eq.	8,2E-06	0,0E+00	9,3E-05	0,0E+00	0,0E+00	-3,7E-05
EP-terrestrial	mol N eq.	8,0E-05	0,0E+00	1,0E-03	0,0E+00	0,0E+00	-4,8E-04
POCP	kg NMVOC eq.	2,6E-05	0,0E+00	4,3E-04	0,0E+00	0,0E+00	-1,3E-04
ADP-minerals&metals*	kg Sb eq.	7,6E-09	0,0E+00	3,9E-07	0,0E+00	0,0E+00	-6,8E-08
ADP-fossil*	MJ	4,3E-02	0,0E+00	1,6E+00	0,0E+00	0,0E+00	-1,1E+00
WDP*	m ³	-2,1E-05	0,0E+00	1,2E-02	0,0E+00	0,0E+00	-9,9E-03
GWP-GHG⁴	kg CO ₂ eq.	9,5E-03	0,0E+00	1,1E-01	0,0E+00	0,0E+00	-4,2E-02
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption, GWP-GHG: Global Warming Potential for Greenhouse Gases						

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

⁴ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Note: Biogenic carbon in packaging is balanced in A1–A3.

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

100% Recycling Scenario for modules A5, C1-C4 & D

Mandatory impact category indicators according to EN 15804, per 1 kg cable drum

Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,3E-01	4,0E-04	1,5E-02	1,7E-03	0,0E+00	-3,2E-02
GWP-fossil	kg CO ₂ eq.	1,6E-03	4,0E-04	1,5E-02	1,7E-03	0,0E+00	-3,2E-02
GWP-biogenic	kg CO ₂ eq.	1,3E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
GWP-luluc	kg CO ₂ eq.	6,3E-07	4,1E-08	5,0E-06	2,2E-06	0,0E+00	-2,0E-04
ODP	kg CFC 11 eq.	3,3E-11	5,9E-12	3,3E-10	2,6E-11	0,0E+00	-8,9E-10
AP	mol H ⁺ eq.	6,7E-06	3,6E-06	4,9E-05	1,2E-05	0,0E+00	-1,8E-04
EP-freshwater	kg P eq.	1,6E-08	1,4E-09	1,1E-07	7,4E-08	0,0E+00	-2,1E-06
EP-marine	kg N eq.	2,5E-06	1,7E-06	1,6E-05	4,4E-06	0,0E+00	-4,5E-05
EP-terrestrial	mol N eq.	2,7E-05	1,8E-05	1,8E-04	4,8E-05	0,0E+00	-5,3E-04
POCP	kg NMVOC eq.	9,9E-06	5,4E-06	7,4E-05	1,5E-05	0,0E+00	-2,1E-04
ADP-minerals&metals*	kg Sb eq.	4,5E-09	1,4E-10	5,1E-08	1,9E-09	0,0E+00	-7,4E-08
ADP-fossil*	MJ	2,3E-02	5,2E-03	2,2E-01	2,9E-02	0,0E+00	-7,9E-01
WDP*	m ³	9,1E-05	1,1E-05	8,4E-04	1,8E-04	0,0E+00	-8,6E-03
GWP-GHG⁵	kg CO ₂ eq.	1,6E-03	4,0E-04	1,5E-02	1,7E-03	0,0E+00	-3,2E-02
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption, GWP-GHG: Global Warming Potential for Greenhouse Gases						

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Negative values in Module D represent potential

⁵ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

net benefits from material recycling and energy recovery beyond the system boundary.

Note: Biogenic carbon in packaging is balanced in A1–A3.

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

100% Incineration Scenario for modules A5, C1-C4 & D

Mandatory impact category indicators according to EN 15804, per 1 kg cable drum

Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,4E-01	4,0E-04	2,5E-02	2,4E+00	0,0E+00	8,5E-02
GWP-fossil	kg CO ₂ eq.	1,2E-02	4,0E-04	2,5E-02	2,4E+00	0,0E+00	8,9E-02
GWP-biogenic	kg CO ₂ eq.	1,3E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
GWP-luluc	kg CO ₂ eq.	1,1E-06	4,1E-08	8,2E-06	1,1E-05	0,0E+00	-3,5E-03
ODP	kg CFC 11 eq.	6,6E-11	5,9E-12	5,4E-10	7,1E-10	0,0E+00	5,2E-08
AP	mol H ⁺ eq.	2,3E-05	3,6E-06	7,9E-05	5,2E-04	0,0E+00	-3,6E-03
EP-freshwater	kg P eq.	4,1E-08	1,4E-09	1,8E-07	5,9E-07	0,0E+00	-8,6E-05
EP-marine	kg N eq.	1,0E-05	1,7E-06	2,6E-05	2,5E-04	0,0E+00	-5,7E-04
EP-terrestrial	mol N eq.	1,1E-04	1,8E-05	2,9E-04	2,6E-03	0,0E+00	-7,6E-03
POCP	kg NMVOC eq.	3,2E-05	5,4E-06	1,2E-04	6,4E-04	0,0E+00	3,7E-03
ADP-minerals&metals*	kg Sb eq.	9,3E-09	1,4E-10	8,3E-08	9,5E-08	0,0E+00	3,6E-06
ADP-fossil*	MJ	4,4E-02	5,2E-03	3,5E-01	3,8E-01	0,0E+00	2,1E+01
WDP*	m ³	3,4E-04	1,1E-05	1,4E-03	1,1E-02	0,0E+00	5,7E-01
GWP-GHG⁶	1,3E-02	1,2E-02	4,0E-04	2,5E-02	2,4E+00	0,0E+00	1,5E-02
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption, GWP-GHG: Global Warming Potential for Greenhouse Gases						

⁶ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

Note: Biogenic carbon in packaging is balanced in A1–A3.

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.*

100% Landfill Scenario for modules A5, C1-C4 & D

Mandatory impact category indicators according to EN 15804, per 1 kg cable drum

Indicator	Unit	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,3E-01	4,0E-04	1,5E-02	1,7E-03	6,1E-03	1,1E+00
GWP-fossil	kg CO ₂ eq.	2,5E-03	4,0E-04	1,5E-02	1,7E-03	6,1E-03	1,1E+00
GWP-biogenic	kg CO ₂ eq.	1,3E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
GWP-luluc	kg CO ₂ eq.	8,2E-07	4,1E-08	5,0E-06	2,2E-06	1,1E-06	-1,5E-04
ODP	kg CFC 11 eq.	5,8E-11	5,9E-12	3,3E-10	2,6E-11	2,1E-10	7,6E-08
AP	mol H ⁺ eq.	1,3E-05	3,6E-06	4,9E-05	1,2E-05	4,2E-05	1,9E-03
EP-freshwater	kg P eq.	2,4E-08	1,4E-09	1,1E-07	7,4E-08	3,4E-08	6,2E-06
EP-marine	kg N eq.	6,4E-06	1,7E-06	1,6E-05	4,4E-06	1,8E-05	3,3E-04
EP-terrestrial	mol N eq.	5,4E-05	1,8E-05	1,8E-04	4,8E-05	2,0E-04	3,7E-03
POCP	kg NMVOC eq.	2,1E-05	5,4E-06	7,4E-05	1,5E-05	7,2E-05	6,8E-03
ADP-minerals&metals*	kg Sb eq.	6,1E-09	1,4E-10	5,1E-08	1,9E-09	7,1E-09	5,3E-06
ADP-fossil*	MJ	4,3E-02	5,2E-03	2,2E-01	2,9E-02	1,5E-01	4,6E+01
WDP*	m ³	-3,3E-04	1,1E-05	8,4E-04	1,8E-04	5,2E-04	8,1E-01
GWP-GHG⁷	kg CO ₂ eq.	7,3E-03	4,0E-04	1,5E-02	1,7E-03	6,1E-03	1,0E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption, GWP-GHG: Global Warming Potential for Greenhouse Gases						

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3). Negative values in Module D represent potential net benefits from material recycling and energy recovery beyond the system boundary.

Note: Biogenic carbon in packaging is balanced in A1–A3.

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.*

⁷ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CPC	Central product classification
GHG	Greenhouse Gas
PEF	Product Environmental Footprint
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse Gas
GWP	Global Warming Potential (kg CO ₂ eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO ₂ eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO ₂ eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO ₂ eq.)
GWP-total	Total Global Warming Potential (kg CO ₂ eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO ₂ eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H ⁺ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m ³)
Resource Use Indicators	
PERE	Renewable primary energy (excluding as raw materials) (MJ)
PERM	Renewable primary energy used as raw materials (MJ)
PERT	Total renewable primary energy (MJ)
PENRE	Non-renewable primary energy (excluding as raw materials) (MJ)
PENRM	Non-renewable primary energy used as raw materials (MJ)
PENRT	Total non-renewable primary 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 (m ³)
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)
Lifecycle Stages / Modules	

A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential
Other Relevant Terms	
SVHC	Substances of Very High Concern
EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number
MJ	Megajoule
kg	Kilogram
m ³	Cubic Meter
NM VOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO ₂ eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO ₂ eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared
PCR plastic	Post-consumer recycled plastic
PE	Polyethylene
PP	Polypropylene
LDPE	Low-density polyethylene
PET	Polyethylene terephthalate

REFERENCES

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ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

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VERSION HISTORY

Original Version of the EPD, 2026-04-13

