epddanmark

ECO PLATFORM
EPD
VERIFIED

Owner: Kvadrat Really
No.:   MD-23096-EN_rev2
Issued: 15-06-2023
Revision: 21-01-2025
Valid to: 15-06-2028

3ʳᵈ PARTY **VERIFIED**

EPD

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | **ISO 14025 & EN 15804**

kvadrat really

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Owner of declaration
Kvadrat Really
Lundbergsvej 10,
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Programme
EPD Danmark
www.epddanmark.dk

☐ Industry EPD
☒ Product EPD

Declared product(s)
Textile Tabletop
Textile Tabletop 22mm

Number of declared datasets/product variations: [2]

Production site
Production site located in Thisted, Denmark

The production is powered by green electricity and biogas, which is used in A3 (production)

Product(s) use
The Kvadrat Really Textile Tabletop is a new upcycled textile product, which is directly applicable with no need for additional surface and edge treatment. The Textile Tabletop is a circular product for environment conscious interiors.

Declared/ functional unit
1 m² of product

Year of production site data (A3)
2021-2023

EPD version
2 – updated with new supplier of plastic fiber and new product.

Issued:
15-06-2023

Valid to:
15-06-2028

Basis of calculation
This EPD is developed in accordance with the European standard EN 15804+A2.

Comparability
EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

Validity
This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

Use
The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

EPD type
☐ Cradle-to-gate with modules C1-C4 and D
☒ Cradle-to-gate with options, modules C1-C4 and D
☐ Cradle-to-grave and module D
☐ Cradle-to-gate
☐ Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR

Independent verification of the declaration and data, according to EN ISO 14025

☐ internal   ☒ external

Third party verifier:

Kim Christiansen

Kim Christiansen

Martha Sørensen

Martha Katrine Sørensen
EPD Danmark

Life cycle stages and modules (MND = module not declared)

Product			Construction process		Use							End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	X	X	X	X	X	X	X	X	X	X	X	X

Product information

Product description

Textile Tabletop is a high-quality engineered circular material made from upcycled end-of-life textiles. It's designed to be reused and is ideal for people and brands actively driving progress towards a no-waste society. Textile Tabletop is a plug-and-play solution for existing and new table frames. It is suitable for multiple horizontal applications where surfaces may be exposed to liquids, heat, and abrasion and comes in standard sizes for workspace tabletops.

Textile Tabletop is made with a second-generation production waste sourced binder, finished with a protective melamine layer on top and bottom.

The main product components are shown in the table below.

Material	Weight-% of Textile Tabletop
Textile fibers	68.5 %
Polyethylene	14.7 %
Polyethylene Terephthalate	14.7 %
Melamine	2.2 %

Material	Weight-% of Textile Tabletop 22 mm
Textile fibers	68.4 %
Polyethylene	14.6 %
Polyethylene Terephthalate	14.6 %
Balancing paper	1.3 %
Melamine	1.0 %

Product packaging

The composition of the sales- and transport packaging of the product is shown in the table below.

Material	Weight-% of packaging
Europallet	70.4 %
Cardboard	27.4 %
Foil	2.2 %

Representativity

This declaration, including data collection and the modeled foreground system including results, represents the production of 1 m^2 product on the production site located in Thisted, Denmark. Product specific data (energy and material input) are based on average values collected in the period 2021-2023.

Background data are based on specific collected data from own production and supplier information, supplemented with dataset from Ecoinvent 3.9.1. Generally, the used generic background datasets are of high quality and less than 10 years old. The data were assessed bases on their quality and representativeness.

Hazardous substances

Textile Tabletop does not contain substances listed on the "Candidate List of Substances of Very High Concern for authorisation"

 (http://echa.europa.eu/candidate-list-table)

Essential characteristics

Further technical information can be obtained by contacting the manufacturer or on the manufacturer's website:

https://www.kvadrat.dk/en/really

Reference Service Life (RSL)

No reference service life (RSL) is declared since the scope of this EPD is cradle-to-gate with modules C1-C4 and D, with the addition of module B1 as the only relevant part of the use phase (B1-B7). The product emits substances during its lifetime, which has been tested and accounted for in the background data.

Picture of product(s)

LCA background

Declared unit

The LCI and LCIA results in this EPD relates to 1 m² of the product.

Name	Tabletop	Tabletop 22 mm	Unit
Declared unit	1	1	[m²]
Density	917	791	kg/m³
Product weight	16.5	17.4	kg/m²
Conversion factor to 1 kg.	0.06	0.06	-

Functional unit

The production of 1 m² of Textile Tabletop

PCR

This EPD is developed according to the core rules for the product category type 3 of construction products in EN15804:2012+A2:2019, which serves as core PCR.

## Guarantee of Origin – certificates

Foreground system:

The declared products are produced using certified green energy and biogas in the production site in Thisted, Denmark, covering A3.

Background system:

The database, ecoinvent 3.9.1. (Published in 12-2022) is utilized for the background system. As a result, both upstream- and downstream activities are based on average supply mixes for specific countries or region depending on the given dataset.

Flowdiagram
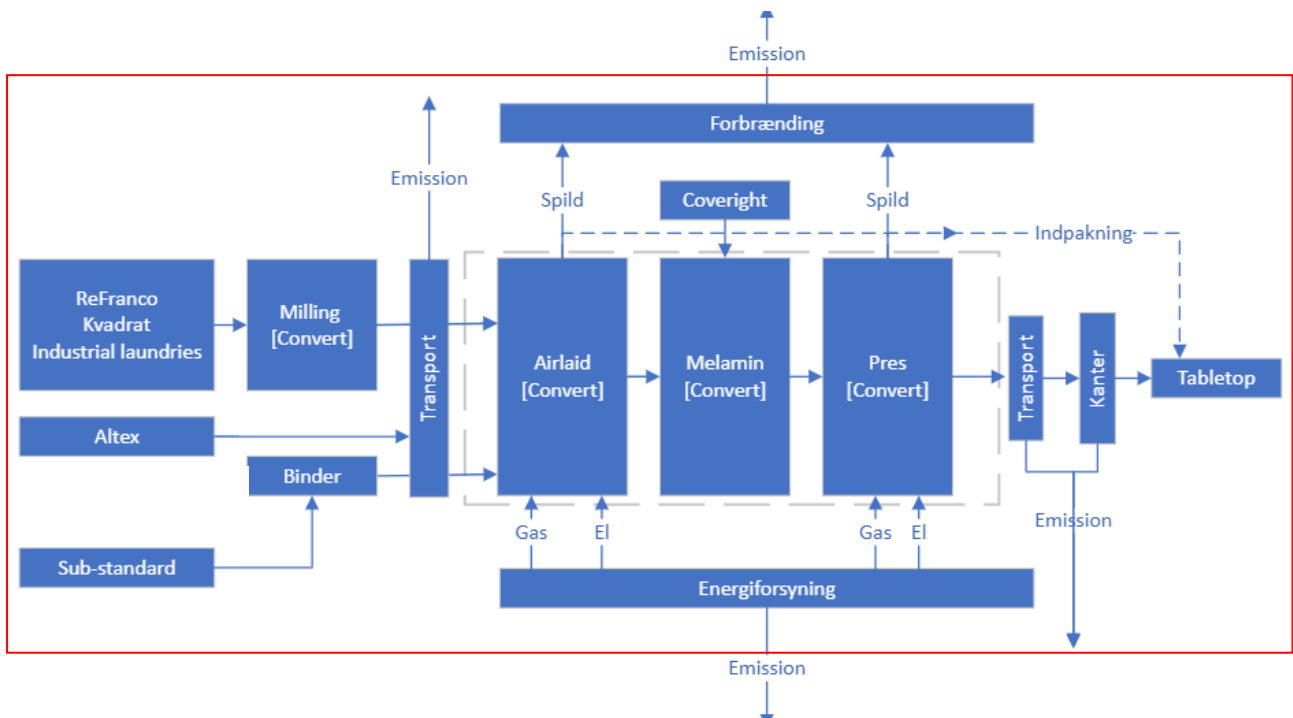
System boundary

This EPD is cradle-to-gate with options, modules C1-C4 and module 4 and covers the life cycle sub modules A1-A3, B1, C1-4 and D, in which 100% weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes.

Product stage (A1-A3) includes:

A1 – Extraction and processing of raw materials

A2 – Transport to the production site

A3 – Manufacturing processes

The production stage comprises the acquisition of raw materials, products and energy, transport to the production site and the energy use of the production.

The acquisition of fiber comes from waste streams and is not accounted for in this LCA. The waste is delivered from Danish industrial laundries, European recyclers and processed in Denmark.

The acquisition of raw materials as well as the energy use in the production of the binder is included. The binder is delivered to the production site in Thisted, Denmark and transport is accounted for.

The production site mixes the fiber and binder in an airlaid process, where mats are formed under heat and pressure.

In the last step mats from the airlaid is pressed together to form the Textile Tabletop under heat and pressure, including a melamine surface on top and bottom.

Use stage (B1-B7) includes:

Maintenance, repair, replacement, and refurbishment (B2-B5):
The installed products are not intended to need repair, nor maintenance, replacement, or refurbishment over the lifetime of the product. Therefore, the impacts of these modules are assumed to be zero.

Operational energy and water use (B6-B7):
There is no energy use or water use involved in the operation of the products i.e., zero.

Use(B1):
During the products lifetime, different emissions occur to the indoor environment. These emissions are included as additional information.

End of Life (C1-C4) includes:

The end-of-life processes: C1-C4 involves the handling of the products at the end-of-life stage from the end-customer. The end-customer dissembles the product and place it in the residual waste bin. Thereafter, it is handled by the municipal waste system, where it is assumed to be incinerated with heat recovery. The energy recovery will be stated as a benefit to the product life cycle since it will substitute primary energy production.

Re-use, recovery and recycling potential (D) includes:

It is Kvadrat Really's ambition to implement a well-functioning take-back system, so the products can be remanufacturing and undergo an additional life cycle. Since the analyzed products is still new to the market and have not reached the end-of-life phase yet, the tested remanufacturing and take back scheme is not implemented in scale. Therefore, the end-of-life phase is assessed following a conservative approach.

LCA results

Tabletop

Core environmental impact indicators

					ENVIRONMENTAL IMPACTS PER M² TABLETOP				
Indicator	**Unit**	**A1**	**A2**	**A3**	**B1**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	[kg CO$_2$ eq.]	5.02E+00	7.84E-01	3.59E+00	0.00E+00	0.00E+00	1.53E-01	2.10E+01	0.00E+00	-4.94E+00
GWP-fossil	[kg CO$_2$ eq.]	5.02E+00	7.83E-01	3.06E+00	0.00E+00	0.00E+00	1.53E-01	8.59E+00	0.00E+00	-4.94E+00
GWP-biogenic	[kg CO$_2$ eq.]	-1.38E-03	6.94E-04	5.16E-01	0.00E+00	0.00E+00	1.35E-04	1.24E+01	0.00E+00	5.79E-03
GWP-luluc	[kg CO$_2$ eq.]	9.56E-05	3.87E-04	9.62E-03	0.00E+00	0.00E+00	7.53E-05	1.67E-04	0.00E+00	-4.60E-04
ODP	[kg CFC 11 eq.]	8.78E-09	1.71E-08	1.99E-07	0.00E+00	0.00E+00	3.32E-09	2.46E-08	0.00E+00	-2.26E-07
AP	[mol H⁺ eq.]	1.58E-02	1.71E-03	2.13E-02	0.00E+00	0.00E+00	3.34E-04	4.84E-03	0.00E+00	-1.30E-02
EP-freshwater	[kg P eq.]	1.63E-03	5.57E-05	1.18E-03	0.00E+00	0.00E+00	1.08E-05	6.30E-04	0.00E+00	-1.46E-03
EP-marine	[kg N eq.]	4.71E-03	4.32E-04	4.35E-03	0.00E+00	0.00E+00	8.42E-05	2.63E-03	0.00E+00	-2.85E-03
EP-terrestrial	[mol N eq.]	4.88E-02	4.39E-03	4.51E-02	0.00E+00	0.00E+00	8.55E-04	2.24E-02	0.00E+00	-2.91E-02
POCP	[kg NMVOC eq.]	4.15E-03	2.66E-03	1.29E-02	1.07E-06	0.00E+00	5.18E-04	5.87E-03	0.00E+00	-7.69E-03
ADPm[1]	[kg Sb eq.]	5.00E-06	2.62E-06	9.26E-05	0.00E+00	0.00E+00	5.11E-07	1.22E-06	0.00E+00	-5.40E-06
ADPf[1]	[MJ]	1.84E+02	1.12E+01	2.08E+01	0.00E+00	0.00E+00	2.18E+00	5.41E+00	0.00E+00	-4.17E+01
WDP[1]	[m³ world eq. deprived]	8.89E-01	5.56E-02	2.43E+00	0.00E+00	0.00E+00	1.08E-02	1.15E+00	0.00E+00	-4.79E-01
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water use									
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.									

Additional environmental impact indicators

					ADDITIONAL ENVIRONMENTAL IMPACTS PER M² TABLETOP				
Parameter	**Unit**	**A1**	**A2**	**A3**	**B1**	**C1**	**C2**	**C3**	**C4**	**D**
PM	[Disease incidence]	8.11E-09	5.84E-08	1.86E-07	0.00E+00	0.00E+00	1.14E-08	4.22E-08	0.00E+00	-4.53E-08
IRP[2]	[kBq U235 eq.]	1.49E-01	1.51E-02	4.36E-01	0.00E+00	0.00E+00	2.93E-03	1.24E-02	0.00E+00	-8.19E-01
ETP-fw[1]	[CTUe]	1.96E+00	5.50E+00	2.37E+01	0.00E+00	0.00E+00	1.07E+00	3.51E+01	0.00E+00	-6.39E+00
HTP-c[1]	[CTUh]	6.59E-10	3.58E-10	4.96E-09	0.00E+00	0.00E+00	6.98E-11	2.34E-09	0.00E+00	-6.70E-10
HTP-nc[1]	[CTUh]	1.12E-08	7.96E-09	8.29E-08	0.00E+00	0.00E+00	1.55E-09	8.26E-08	0.00E+00	-3.06E-08
SQP[1]	-	1.87E+01	6.72E+00	1.56E+02	0.00E+00	0.00E+00	1.31E+00	2.64E+00	0.00E+00	-1.10E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality									
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. [2] 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.									

Parameters describing resource use

Parameter	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
RESOURCE USE PER M² TABLETOP										
PERE	[MJ]	6.77E+00	1.75E-01	8.07E+01	0.00E+00	0.00E+00	3.41E-02	1.71E-01	0.00E+00	-7.87E-01
PERM	[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
PERT	[MJ]	6.77E+00	1.75E-01	8.07E+01	0.00E+00	0.00E+00	3.41E-02	1.71E-01	0.00E+00	-7.87E-01
PENRE	[MJ]	1.56E+02	1.02E+01	2.04E+01	0.00E+00	0.00E+00	1.99E+00	5.10E+00	0.00E+00	-4.17E+01
PENRM	[MJ]	1.48E+01	9.71E-01	3.40E-01	0.00E+00	0.00E+00	1.89E-01	3.13E-01	0.00E+00	0.00E+00
PENRT	[MJ]	1.70E+02	1.12E+01	2.08E+01	0.00E+00	0.00E+00	2.18E+00	5.41E+00	0.00E+00	-4.17E+01
SM	[kg]	2.65E-01	1.23E-02	3.66E-01	0.00E+00	0.00E+00	2.40E-03	-1.57E-01	0.00E+00	0.00E+00
RSF	[MJ]	1.32E-01	3.31E-03	1.40E-02	0.00E+00	0.00E+00	6.46E-04	3.09E-03	0.00E+00	0.00E+00
NRSF	[MJ]	6.98E-01	2.70E-03	1.45E-02	0.00E+00	0.00E+00	5.27E-04	2.43E-03	0.00E+00	0.00E+00
FW	[m³]	1.07E-01	1.35E-03	6.83E-02	0.00E+00	0.00E+00	2.64E-04	1.83E-02	0.00E+00	-7.64E-02
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 = Net use of fresh water									

End-of-life (waste categories and output flows)

Parameter	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
WASTE CATEGORIES AND OUTPUT FLOWS PER M² TABLETOP										
HWD	[kg]	1.42E-01	1.05E-02	2.01E-02	0.00E+00	0.00E+00	2.05E-03	7.70E-01	0.00E+00	-4.72E-05
NHWD	[kg]	3.08E-01	5.43E-01	1.51E+00	0.00E+00	0.00E+00	1.06E-01	3.77E+00	0.00E+00	-1.54E-01
RWD	[kg]	1.80E-04	3.66E-06	1.34E-04	0.00E+00	0.00E+00	7.13E-07	3.14E-06	0.00E+00	-2.54E-04
CRU	[kg]	-1.10E-20	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]	2.36E-01	1.11E-02	6.34E-02	0.00E+00	0.00E+00	2.17E-03	1.93E-01	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	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 = Eksporteret elektrisk energi; EET = Eksporteret termisk energi									

Tabletop 22 mm

Core environmental impact indicators

Indicator	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
GWP-total	[kg CO_2 eq.]	6,50E+00	8,25E-01	2,99E+00	0,00E+00	0,00E+00	1,61E-01	2,21E+01	0,00E+00	-5,20E+00
GWP-fossil	[kg CO_2 eq.]	6,69E+00	8,24E-01	2,12E+00	0,00E+00	0,00E+00	1,61E-01	9,05E+00	0,00E+00	-5,21E+00
GWP-biogenic	[kg CO_2 eq.]	-1,91E-01	7,30E-04	8,55E-01	0,00E+00	0,00E+00	1,42E-04	1,31E+01	0,00E+00	6,10E-03
GWP-luluc	[kg CO_2 eq.]	1,29E-03	4,07E-04	6,30E-03	0,00E+00	0,00E+00	7,94E-05	1,76E-04	0,00E+00	-4,85E-04
ODP	[kg CFC 11 eq.]	5,98E-08	1,79E-08	7,02E-09	0,00E+00	0,00E+00	3,50E-09	2,59E-08	0,00E+00	-2,38E-07
AP	[mol H^+ eq.]	2,42E-02	1,80E-03	1,40E-02	0,00E+00	0,00E+00	3,52E-04	5,10E-03	0,00E+00	-1,37E-02
EP-freshwater	[kg P eq.]	2,29E-03	5,86E-05	8,24E-04	0,00E+00	0,00E+00	1,14E-05	6,64E-04	0,00E+00	-1,54E-03
EP-marine	[kg N eq.]	6,42E-03	4,54E-04	3,12E-03	0,00E+00	0,00E+00	8,87E-05	2,77E-03	0,00E+00	-3,01E-03
EP-terrestrial	[mol N eq.]	7,14E-02	4,62E-03	2,95E-02	0,00E+00	0,00E+00	9,01E-04	2,36E-02	0,00E+00	-3,06E-02
POCP	[kg NMVOC eq.]	1,02E-02	2,80E-03	9,97E-03	1,07E-06	0,00E+00	5,46E-04	6,19E-03	0,00E+00	-8,11E-03
ADPm[1]	[kg Sb eq.]	2,18E-05	2,76E-06	8,08E-05	0,00E+00	0,00E+00	5,38E-07	1,28E-06	0,00E+00	-5,69E-06
ADPf[1]	[MJ]	2,23E+02	1,18E+01	3,19E+01	0,00E+00	0,00E+00	2,30E+00	5,70E+00	0,00E+00	-4,40E+01
WDP[1]	[m^3 world eq. deprived]	2,90E+00	5,85E-02	1,24E+00	0,00E+00	0,00E+00	1,14E-02	1,21E+00	0,00E+00	-5,05E-01
Caption	GWP-total = Global Warming Potential - total; 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 = Ozone Depletion; AP = Acidifcation; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water use									
Disclaimer	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.									

Additional environmental impact indicators

Parameter	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
PM	[Disease incidence]	1,01E-07	6,14E-08	1,53E-07	0,00E+00	0,00E+00	1,20E-08	4,44E-08	0,00E+00	-4,77E-08
IRP[2]	[kBq U235 eq.]	2,46E-01	1,58E-02	6,93E-02	0,00E+00	0,00E+00	3,09E-03	1,31E-02	0,00E+00	-8,63E-01
ETP-fw[1]	[CTUe]	7,91E+00	5,79E+00	1,86E+01	0,00E+00	0,00E+00	1,13E+00	3,69E+01	0,00E+00	-6,74E+00
HTP-c[1]	[CTUh]	5,67E-09	3,77E-10	4,50E-09	0,00E+00	0,00E+00	7,36E-11	2,47E-09	0,00E+00	-7,06E-10
HTP-nc[1]	[CTUh]	2,97E-08	8,37E-09	7,08E-08	0,00E+00	0,00E+00	1,63E-09	8,70E-08	0,00E+00	-3,23E-08
SQP[1]	-	5,09E+01	7,07E+00	1,39E+02	0,00E+00	0,00E+00	1,38E+00	2,79E+00	0,00E+00	-1,16E+01
Caption	PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality									
Disclaimers	[1] The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. [2] 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.									

Parameters describing resource use

				RESOURCE USE PER M² TABLETOP 22 MM					
Parameter	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
PERE	[MJ]	1,64E+01	1,84E-01	8,10E+01	0,00E+00	0,00E+00	3,59E-02	1,81E-01	0,00E+00	-8,30E-01
PERM	[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
PERT	[MJ]	1,64E+01	1,84E-01	8,10E+01	0,00E+00	0,00E+00	3,59E-02	1,81E-01	0,00E+00	-8,30E-01
PENRE	[MJ]	1,92E+02	1,08E+01	2,91E+01	0,00E+00	0,00E+00	2,10E+00	5,37E+00	0,00E+00	-4,40E+01
PENRM	[MJ]	1,69E+01	1,02E+00	2,81E+00	0,00E+00	0,00E+00	1,99E-01	3,30E-01	0,00E+00	0,00E+00
PENRT	[MJ]	2,09E+02	1,18E+01	3,20E+01	0,00E+00	0,00E+00	2,30E+00	5,70E+00	0,00E+00	-4,40E+01
SM	[kg]	6,83E-01	1,29E-02	3,46E-01	0,00E+00	0,00E+00	2,52E-03	-1,66E-01	0,00E+00	0,00E+00
RSF	[MJ]	1,63E-01	3,49E-03	1,87E-02	0,00E+00	0,00E+00	6,80E-04	3,25E-03	0,00E+00	0,00E+00
NRSF	[MJ]	7,92E-01	2,84E-03	1,99E-02	0,00E+00	0,00E+00	5,55E-04	2,56E-03	0,00E+00	0,00E+00
FW	[m³]	1,59E-01	1,42E-03	1,89E-02	0,00E+00	0,00E+00	2,78E-04	1,93E-02	0,00E+00	-8,05E-02
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 = Net use of fresh water									

End-of-life (waste categories and output flows)

				WASTE CATEGORIES AND OUTPUT FLOWS PER M² TABLETOP 22 MM					
Parameter	Unit	A1	A2	A3	B1	C1	C2	C3	C4	D
HWD	[kg]	2,11E-01	1,11E-02	1,83E-01	0,00E+00	0,00E+00	2,16E-03	8,11E-01	0,00E+00	-4,97E-05
NHWD	[kg]	4,67E-01	5,71E-01	1,28E+00	0,00E+00	0,00E+00	1,11E-01	3,98E+00	0,00E+00	-1,62E-01
RWD	[kg]	2,14E-04	3,85E-06	1,94E-05	0,00E+00	0,00E+00	7,51E-07	3,31E-06	0,00E+00	-2,68E-04

CRU	[kg]	-1,60E-20	0,00E+00	-2,03E-23	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	2,96E-01	1,17E-02	1,06E-01	0,00E+00	0,00E+00	2,29E-03	2,04E-01	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	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 = Eksporteret elektrisk energi; EET = Eksporteret termisk energi									

Biogenic carbon content at factory gate

BIOGENIC CARBON CONTENT PER M² AT THE FACTORY GATE			
Parameter	Unit	Tabletop	Tabletop 22 mm
Biogenic carbon content in product	[kg C]	0	0
Biogenic carbon content in accompanying packaging	[kg C]	0.0779	0.0779
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO_2		

Additional information

LCA interpretation

With utilization of green energy sources, the processing energy and gas consumption has less impact compared to virgin input streams and waste management. This gives the bi-component (BICO) fiber (combination of PE & PET), melamine and waste management the largest general impacts.

Technical information on scenarios

End of life (C1-C4)

Scenario information	Value	Unit
Collected separately	100	%
For energy recovery	100	%
Assumptions for scenario development	N/A	As appropriate

Re-use, recovery and recycling potential (D)

Scenario information/Materiel	Value	Unit
Displaced electricity, modelled as the Danish electrical grid.	-1.39 MJ	Per kg
Displaced heating energy, modelled as natural gas.	-2.85 MJ	Per kg

Indoor air

The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available.

Relevant information on material emissions is available on https://www.kvadrat.dk/en/really

Supporting documentation is available on request.

Soil and water

The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.

References

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LCA-practitioner	*The LCA has been conducted by an internal LCA practitioner, Oskar Lasse Lilleøre, Troels Theilby and supported by external LCA practitioner Tomas Sander Poulsen, and Matias Lund Pedersen, Provice.*
LCA software /background data	*Ecoinvent 3.9.1* *Ecoinvent EN15804 Add-on* *EF ref. package 3.1* *OpenLCA 2.1.0*
3rd party verifier	*Kim Christiansen*

General programme instructions
General Programme Instructions, version 2.0, spring 2020
www.epddanmark.dk

EN 15804
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EN 15942
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