

ILCD dataset		sub-datasets	sector	dataset author	(background) database database		Comments
					/ software used	/ sw support	
1 1.1	2,5" Hard disk drive	<320 GB	electronics	Fraunhofer	GaBi	inhouse	staged data model is a proxy only, electricity consumption scales with capacity
2 1.2	2,5" Hard disk drive	320 - 1000 GB	electronics	Fraunhofer	GaBi	inhouse	detto
3 1.3	2,5" Hard disk drive	1000 - 2000 GB	electronics	Fraunhofer	GaBi	inhouse	detto
4 2.1	3,5" Hard disk drive	<500 GB	electronics	Fraunhofer	GaBi	inhouse	detto
5 2.2	3,5" Hard disk drive	500 - 1000 GB	electronics	Fraunhofer	GaBi	inhouse	detto
6 2.3	3,5" Hard disk drive	1000 - 3000 GB	electronics	Fraunhofer	GaBi	inhouse	detto
7 3	Wafer	DRAM	electronics	Fraunhofer	GaBi	inhouse	
							data completed, documentation of dataset has to be made
8 4.1	single-sided rigid FR4 PCB	with Au coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
9 4.2	single-sided rigid FR4 PCB	with Tin coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
10 4.3	single-sided rigid FR4 PCB	with Ag coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
11 4.4	single-sided rigid FR4 PCB	with HAL	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
12 5.1	double-sided rigid FR4 PCB	with Au coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
13 5.2	double-sided rigid FR4 PCB	with Tin coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
14 5.3	double-sided rigid FR4 PCB	with Ag coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
15 5.4	double-sided rigid FR4 PCB	with HAL	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
16 6.1	4-layer rigid FR4 PCB	with Au coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
17 6.2	4-layer rigid FR4 PCB	with Tin coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
18 6.3	4-layer rigid FR4 PCB	with Ag coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
19 6.4	4-layer rigid FR4 PCB	with HAL	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
20 7.1	6-layer rigid FR4 PCB	with Au coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
21 7.2	6-layer rigid FR4 PCB	with Tin coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
22 7.3	6-layer rigid FR4 PCB	with Ag coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
23 7.4	6-layer rigid FR4 PCB	with HAL	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
24 8.1	8-layer rigid FR4 PCB	with Au coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
25 8.2	8-layer rigid FR4 PCB	with Tin coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
26 8.3	8-layer rigid FR4 PCB	with Ag coating	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
27 8.4	8-layer rigid FR4 PCB	with HAL	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	detto
28 9.1	PC PCB	PC, mainboard (6 layers, Nickel-Gold, ATX (305 mm x 244 mm): 744 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
29 9.2	PC PCB	PC, memory module (6 layers, Nickel-Gold, DIMM (130 mm x 25 mm): 32,5 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
30 9.3	PC PCB	PC, graphics card (4 layers, Nickel-Gold, (6,6"): 118 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
31 9.4	PC PCB	PC, HDD board (4 layers, Nickel-Gold, 3,5" HDD: 42 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
32 10.1	Laptop PCB	Laptop, mainboard (8 layers, Nickel-Gold, 270 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
33 10.2	Laptop PCB	Laptop, memory module (6 layers, Nickel-Gold, SO DIMM: 20,3 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
34 10.3	Laptop PCB	Laptop, WLAN module (4 layers, Nickel-Gold, Mini PCIe card: 15 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
35 10.4	Laptop PCB	Laptop, HDD board (4 layers, Nickel-Gold, 2,5" HDD: 58 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
36 10.5	Laptop PCB	Laptop, other rigid boards (e.g. power button PCB, USB connector PCB, touchpad PCB) (2 layers, HAL, 20 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
37 11.1	Tablet PCB	Tablets (7" range), mainboard (8 layers, Nickel-Gold, 50 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	

38 11.2	Tablet PCB	Tablets (10" range), mainboard (8 layers, Nickel-Gold, 80 cm ²) Servers, mainboard (10 layers, HAL, E-ATX boards for 2 CPUs; 305 mm x 330 mm): 1007 cm ²)	PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
39 12	Server PCB		PCB	ITR/Fraunhofer	GaBi	Fraunhofer	
40 13	Succinic acid from biomass		Bio-based plastic ITENE		Sima Pro (Ecoinvent)	ITENE	Estimation based on literature review
41 14	Polybutylene succinate (PBS), partially bio-based		Bio-based plastic ITENE		Sima Pro (Ecoinvent)	ITENE	Estimation based on literature review. Precursor for production of PBS (Polybutylene Succinate)
42 15	Poly lactide PLA, from corn		Bio-based plastic ITENE		Sima Pro (Ingeo Polylactide Eco-profile)	ITENE	Based on the updated Eco-profile of Ingeo Polylactide
43 16	Potato-based starch plastic		Bio-based plastic ITENE		Sima Pro (Ecoinvent)	ITENE	Estimation based on a Patent
44 17	Bio-based HDPE from sugarcane		Bio-based plastic ITENE		Sima Pro	ITENE	Estimation based on literature review
45 18	Bio-based LDPE from sugarcane		Bio-based plastic ITENE		Sima Pro	ITENE	Estimation based on literature review
46 19	PHB from bacteria		Bio-based plastic ITENE		Sima Pro (Ecoinvent)	ITENE	Estimation based on literature review
47 20	Bioethanol from sugarcane		Bio-based plastic ITENE		Sima Pro	ITENE	Estimation based on literature review. Bioethanol from sugarcane is used as a precursor for production of bio-based HDPE and LDPE
48 21	Dyeing Textiles	dyeing, excluding pigments and carriers	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
49 22	Finishing Textiles	heat setting and washing synthetic fabrics	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
50 23.1	Knitting Textiles	knitting 83 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
51 23.2	Knitting Textiles	knitting 200 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
52 23.3	Knitting Textiles	knitting 300 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
53 24	Textiles production	pretreatment of cotton	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
54 25.1	Spinning Textiles, cotton	spinning cotton 45 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
55 25.2	Spinning Textiles, cotton	spinning cotton 70 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
56 25.3	Spinning Textiles, cotton	spinning cotton 100 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
57 25.4	Spinning Textiles, cotton	spinning cotton 150 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
58 25.5	Spinning Textiles, cotton	spinning cotton 200 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
59 25.6	Spinning Textiles, cotton	spinning cotton 300 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
60 25.7	Spinning Textiles, cotton	spinning cotton 400 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
61 25.8	Spinning Textiles, cotton	spinning cotton 500 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
62 26	Spinning Textiles, polymer filaments	spinning extruder polymer filaments (80 - 500 dtex)	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
63 27	Spinning Textiles, viscose fibre	spinning viscose fibres (80-500 dtex)	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
64 28	Textiles production	texturing polymer fibres	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
65 29.1	Weaving Textiles	weaving 15 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
66 29.2	Weaving Textiles	weaving 30 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
67 29.3	Weaving Textiles	weaving 45 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
68 29.4	Weaving Textiles	weaving 70 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
69 29.5	Weaving Textiles	weaving 100 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
70 29.6	Weaving Textiles	weaving 150 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
71 29.7	Weaving Textiles	weaving 200 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
72 29.8	Weaving Textiles	weaving 300 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
73 29.9	Weaving Textiles	weaving 400 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
74 29.10	Weaving Textiles	weaving 500 dtex	Smart Textiles	TU Delft	Simapro (Ecoinvent)	TU Delft	Unit: per kg
75 30.1	Li-Ion (CNCA) Batteries for PV Systems	averaged, per kg	PV	Fraunhofer	GaBi	Fraunhofer	
76 30.2	Li-Ion (CNCA) Batteries for PV Systems	capacity 1 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
77 30.3	Li-Ion (CNCA) Batteries for PV Systems	capacity 50 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
78 30.4	Li-Ion (CNCA) Batteries for PV Systems	capacity 100 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
79 30.5	Li-Ion (CNCA) Batteries for PV Systems	capacity 250 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
80 30.6	Li-Ion (CNCA) Batteries for PV Systems	capacity 500 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
81 30.7	Li-Ion (CNCA) Batteries for PV Systems	capacity 1000 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
82 31.1	Li-Ion (LTOLFP) Batteries for PV Systems	averaged, per kg	PV	Fraunhofer	GaBi	Fraunhofer	

83	31.2	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 1 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
84	31.3	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 50 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
85	31.4	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 100 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
86	31.5	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 250 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
87	31.6	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 500 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
88	31.7	Li-Ion (LTOLFP) Batteries for PV Systems	capacity 1000 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
89	32.1	Lead acid battery for PV systems	averaged, per kg	PV	Fraunhofer	GaBi	Fraunhofer	
90	32.2	Lead acid battery for PV systems	capacity 1 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
91	32.3	Lead acid battery for PV systems	capacity 50 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
92	32.4	Lead acid battery for PV systems	capacity 100 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
93	32.5	Lead acid battery for PV systems	capacity 250 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
94	32.6	Lead acid battery for PV systems	capacity 500 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
95	32.7	Lead acid battery for PV systems	capacity 1000 Wh	PV	Fraunhofer	GaBi	Fraunhofer	
96	33. ...	Profile grinding	Steel_rough	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
97		Profile grinding	Steel_finishing	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
98		Profile grinding	Steel_average	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
99		Profile grinding	Aluminium_rough	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
100		Profile grinding	Aluminium_finishing	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
101		Profile grinding	Aluminium_average	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Chip weight
102		Profile grinding	Machine (infrastructure)	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Machine
103		EDM Drilling	Steel_thickness_1mm_&_hole_diameter_0.3 mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
104		EDM Drilling	Steel_thickness_1mm_&_hole_diameter_0.1 mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
105		EDM Drilling	Steel_thickness_1mm_&_hole_diameter_0.0 5mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
106		EDM Drilling	Steel_thickness_0.7mm_&_hole_diameter_0 .3mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
107		EDM Drilling	Steel_thickness_0.7mm_&_hole_diameter_0 .1mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
108		EDM Drilling	Steel_thickness_0.7mm_&_hole_diameter_0 .05mm	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Hole
109		EDM Drilling	Steel_average	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per mm^3
110		EDM Drilling	Machine (infrastructure)	Machine tools	TUWien	Simapro (Ecoinvent)	TUWien	Unit: per Machine