

## Product specific requirements: 111. Bread Boxes

Version: 3.0  
Last update: 07.04.2022

Material	Products	Remark
Plastic, Different Wood Species, Metall, Ceramic	-	-



No	Parameter	Method	Reference	Requirement
<b>General requirements</b>				
1	Odor	In House	-	No particular smell on material
2	Workmanship	In House	-	Product and its components has to meet the requirements on design and quality according to information offered by producer;  No damages on material: - Without scratches, dents, cracks, marred or discolored surface - Without major defects - Without components missing, deformed or fractured - Without hardware missing - Without pits or burrs and weld smoothly filed / grounded - Without loose components or loosened fastening where rigidity is required - With proper and uniform adhesion in wooden parts - Without flash and consistent in size, color and form for plastic parts - With finished edges and seams - Even in color & clarity - Evenly aligned in seams and components
3	Design	In House	-	The item shall be free from sharp edges, splinters or shearing points.  Free from burrs, splinters or sharp edge; without pits or burrs
4	Product Specification	In House	-	All applicable physical characteristics (length, width, height, weight, thread count shall be properly given.  Required information shall be provided.
5	Labelling	In House	SR 817.023.21/ 2001/95/EC	The name or trade name and the address or registered office of the party that is responsible for placing the materials or articles on the market.  Place: Directly on the product, or if technically not possible - on a label / leaflet.
6	Labelling	In House	SR 817.023.21/ 2001/95/EC	a) Product identification information b) General safety c) Warning and safety instructions. d) Operating or care instructions e) Special instructions and precautions on how to use the final product if necessary  - in a clearly visible place; - in easily readable and indelible writing; - in at least one official language (GE/IT/FR).  Place: Directly on the product or packaging or label or on a leaflet.
7	Labelling for wood items	In House	SR 944.021	Add. requirements for Switzerland: Trade name of the timber! Place of origin of the timber!  Place: on the product itself, in its immediate proximity or on the packaging; if technically not possible- in some other easily accessible, legible way (shelf, catalogue); - in at least one official language (DE/IT/FR)
8	Information to name of the timber	In House	SR 944.021	Add. requirements for Switzerland: - Indicate the trade name of the timber and the scientific name of the timber; (set down by the EAER) - Several timber species may be given - The indication 'mixed timber' is permitted if made of diff wood fibre; - If >3 components made of different timber species, min.3 species must be indicated. - The timber species of a veneer must be indicated if it covers the surface of a product.
9	Information to place of origin of the timber	In House	SR 944.021	Add. requirements for Switzerland: - The place of origin of the timber (the country in which the timber was harvested) - Several possible countries of origin may be given - If >5 countries of origin - the smallest geographical area from which the timber originated may be given - The indication 'origin unknown' are allowed - At least the place of origin of 3 species that make up the largest proportion by mass of the product must be indicated. - The place of origin of a veneer must be indicated if it covers the surface of a product.
10	Care instruction	In House	SR 817.023.21/ SR 946.51	Recommended add. information, Example: - Only rinse by hand. - Wooden plates are recommended to be dried with a damp cloth to avoid cracks, mould etc. as well as to prevent fast deterioration.  In at least one official language (DE/IT/FR).
<b>Chemical requirements</b>				
<b>Wood &amp; Bamboo Parts (With or without food contact)</b>				
11	Wood preservatives: 1. Arsenic or arsenic compounds 2. Tar oils	GC-MS	SR 814.81	Treated wood may not be placed on the market: a. creosote (CAS no. 8001-58-9); b. creosote oil (CAS no. 61789-28-4); c. distillates (coal tar), naphthalene oils (CAS no. 84650-04-4); d. creosote oil, acenaphthene fraction (CAS no. 90640-84-9); e. distillates (coal tar), upper (CAS no. 65996-91-0); f. anthracene oil (CAS no. 90640-80-5); g. tar acids, coal, crude (CAS no. 65996-85-2); h. creosote, wood (CAS no. 8021-39-4); i. low-temperature coal (CAS no. 22384-78-5).

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12	Arsenic (As) (specially for Bamboo)	DIN EN ISO 11885 ICP-OES	SR 814.81 EG 1907/2006	Ban on use treated wood may not be placed on the market
13	Penta-, Tetrachlor-phenol(PCP/TrICP/TeCP)	GC-ECD oder GC-MS	Not regulated in CH; EG 1907/2006	≤ 0.5 mg/kg
14	Formaldehyde (CAS 0000050-00-0 /1) (Wood & Bamboo)	EN 13130	Not regulated in CH; With reference to 1935/2004/EC	SML of 15 mg per kg in foods
15	Dimethylfumarat	GC-MS	SR 814.81 EG 1907/2006	0,1 mg/kg
<b>Plastics (Non-Food Contact Part)</b>				
16	Lead (Pb), total content	Acid digestion / AAS or ICP	SR 814.81 REACH	Without food contact: 500 mg/kg
17	Cadmium (Cd), total content	Acid digestion / AAS or ICP	SR 814.81	Without food contact: 100 mg/kg
18	Polycyclic aromatic hydrocarbons (PAH)	AIPS GS 2019:01 PAK	Not regulated in CH Annex XVII, REACH	Only in EU: 8 PAH: ≤ 1 mg/kg (each)
19	Short Chain Chlorinated Paraffin (SCCP) total content	ISO 18219 / GC-NCI-MS / GC-ECD	Not regulated in CH Regulation (EU) No 2019/1021 and its amendments	≤ 0.15% (Articles)
<b>Plastics in general (With food contact)</b> (specific requirements for Switzerland listed in SR 817.023.21 LGV Annex 2): <a href="https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang2-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_2.pdf">https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang2-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_2.pdf</a> Logbook of changes from former CH Law: <a href="https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/logbook-of-changes.pdf.download.pdf/Logbook_Ink.pdf">https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/logbook-of-changes.pdf.download.pdf/Logbook_Ink.pdf</a>				
20	Lead (Pb), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 § 30 LFGB	n.d. in coating 100 mg/kg in Plastics: n.d. (2 mg/kg)
21	Cadmium (Cd), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 SR 814.81 § 30 LFGB	n.d. in coating 100 mg/kg in Plastics: n.d. (0.5 mg/kg)
22	Colour release	BGBL 15 (1972) 285	SR 817.02 Recommendation of BfR (Germany)	no color release
23	Polycyclic aromatic hydrocarbons (PAH)	AIPS GS 2019:01	SR 817.023.21 (EU) 10/2011	8 PAH: n.d. 0.2 mg/kg (each)
24	Primary aromatic amines	DIN 13130, UV/Vis	SR 817.023.21 (EU) 10/2011 BfR XXI (Germany)	n.d. (each 0,01 mg/kg) Shall not be detected (Detection Limit = 0.002 mg/kg for substances under Entry 43 of Annex XVII of Regulation EC 1907/2006; 0.01 mg/kg for other PAAs)
25	Overall Migration	EN 1186	SR 817.023.21 (EU) 10/2011	≤ 10 mg/dm <sup>2</sup> or 60 mg/kg
26	Specific Migration of heavy metals	EN 13130	SR 817.023.21 (EU) 10/2011	Specific migration shall not exceed the requirements: Aluminium: max. 1 mg/kg food simulant (in EU from 14/09/2018) Barium: max. 1 mg/kg food simulant Cobalt: max. 0.05 mg/kg food simulant Copper: max. 5 mg/kg food simulant Iron: max. 48 mg/kg food simulant Lithium: max. 0.6 mg/kg food simulant Manganese: max. 0.6 mg/kg food simulant; in EU from 14.09.2018) Zink: max. 25 mg/kg food simulant (max. 5 mg/kg food simulant; in EU from 19/05/2019) Nickel (only in EU): max. 0,02 mg/kg food simulant (in EU from 19/05/2019)
27	Sensory test	DIN 10955	(EU) 1935/2004	< 3
<b>Metals and alloys</b>				
28	Lead/ Cadmium/ Arsen (total content)	ICP-MS	SR 817.023.21	< 0,05 % Lead < 0,01% Cadmium < 0,03% Arsen
29	Lead	ICP-MS	SR 814.81	Allowed alloy of brass (messing); Lead total content < 0,5%
30	Tin (mandatory risk analysis)	ICP-MS	SR 817.023.21	Products from Tin (min. 97 % Tin); < 0,05 % Lead < 0,01% Cadmium
31	Tin as Alloy (mandatory risk analysis)	ICP-MS	SR 817.023.21	Sn 99,85 % < 0,01 % Lead < 0,01% Cadmium

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32	Specific Metall Release	EN 13130 / ICP and ICP-MS	Not regulated in CH Manor requirements ro follow Resolution CM/Res (2013)9	Highly recommended to follow requirements to 21 Elements according to CM/RES (2013)9 Resolution CM/Res (2013)9 on metals and alloys used in food contact materials and articles: <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>No</th> <th>W</th> <th>Element (food)</th> <th>SRL (mg/kg)</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td>Aluminium</td><td>5</td></tr> <tr><td>2</td><td></td><td>Antimony</td><td>0.04</td></tr> <tr><td>3</td><td></td><td>Arsenic</td><td>0.002</td></tr> <tr><td>4</td><td></td><td>Barium</td><td>1.2</td></tr> <tr><td>5</td><td></td><td>Beryllium</td><td>0.01</td></tr> <tr><td>6</td><td></td><td>Cadmium</td><td>0.005</td></tr> <tr><td>7</td><td></td><td>Chromium</td><td>0.250</td></tr> <tr><td>8</td><td></td><td>Cobalt</td><td>0.02</td></tr> <tr><td>9</td><td></td><td>Copper</td><td>4</td></tr> <tr><td>10</td><td></td><td>Iron</td><td>40</td></tr> <tr><td>11</td><td></td><td>Lead</td><td>0.010</td></tr> <tr><td>12</td><td></td><td>Lithium</td><td>0.048</td></tr> <tr><td>13</td><td></td><td>Manganese</td><td>1.8</td></tr> <tr><td>14</td><td></td><td>Mercury</td><td>0.003</td></tr> <tr><td>15</td><td></td><td>Molybdenum</td><td>0.12</td></tr> <tr><td>16</td><td></td><td>Nickel</td><td>0.14</td></tr> <tr><td>17</td><td></td><td>Silver</td><td>0.08</td></tr> <tr><td>18</td><td></td><td>Thallium</td><td>0.0001</td></tr> <tr><td>19</td><td></td><td>Tin</td><td>100</td></tr> <tr><td>20</td><td></td><td>Vanadium</td><td>0.01</td></tr> <tr><td>21</td><td></td><td>Zinc</td><td>5</td></tr> </tbody> </table>	No	W	Element (food)	SRL (mg/kg)	1		Aluminium	5	2		Antimony	0.04	3		Arsenic	0.002	4		Barium	1.2	5		Beryllium	0.01	6		Cadmium	0.005	7		Chromium	0.250	8		Cobalt	0.02	9		Copper	4	10		Iron	40	11		Lead	0.010	12		Lithium	0.048	13		Manganese	1.8	14		Mercury	0.003	15		Molybdenum	0.12	16		Nickel	0.14	17		Silver	0.08	18		Thallium	0.0001	19		Tin	100	20		Vanadium	0.01	21		Zinc	5
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34	Lead and Cadmium	EN 1388 7086-1 (24 hours at 22 ° C to 4 % acetic acid)	SR 817.023.21 BedGgstV 84/500/EEC (EU) 69/493/ EWG Mandatory confirmation about the compliance for all products	In CH Regulated: for big products >3L: Lead – 1.5 mg/L; Cadmium - 0,1 mg/L  Remark: (Limits for main product & lid together)																																																																																								
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35	Hygiene	Actual Use	-	All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances.																																																																																								
36	Drop Impact Test	With reference to EN 12546-1 Clause 5.8.1	-	Sample shall not produce any function lost (also for ceramic). Slight deformation is allowed, but no other abnormalities after 3 drops onto a horizontal hard-wood board of not less than 3 cm thickness, from 10 cm height.																																																																																								
37	Stability Test (Applicable to Free-standing Items)	Actual Use	-	The sample shall not overbalance on a 10-degree slope in all directions. Still stable, wobble a little bit																																																																																								
<b>PHYSICAL CHARACTERISTICS</b>																																																																																												
38	Overall Dimensions (cm & inch) (Applicable if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).																																																																																								
39	Handle Strength (if applicable)	Actual Use	-	50N for 30 sec- no change, unfixed or deformation is allowed																																																																																								
<b>PERFORMANCE TESTING</b>																																																																																												
40	Functionality	In House	-	The sample shall function as intended or as claimed in the state of as-received.																																																																																								
41	Load (if Applicable)	Actual Use	-	1.5 heavier as claimed for 30 Min - no change, unfixed or deformation is allowed																																																																																								
42	Moisture Content (%) (For Solid Wood)	In House Method	-	Moisture content determined: 8 – 12%																																																																																								
43	Effects of Humidity (For Solid Wood)	In House Method	-	No change after 24 hours at 95% RH & 40°C (100°F)																																																																																								
44	Cyclic Durability Of Rotating / Moving Components (if Applicable)	In House Method	-	Each rotating / moving component shall sustain 100 cycles of operations without failure and able to provide a smooth uniform operation after the test.																																																																																								
45	Resistance To Corrosion (only if with metal parts)	With reference to ISO 9227 NSS.	-	After 8 hours exposure to 1% salt fog. Results according to corrosion rating standards ISO 10289: there shall be no major discoloration in appearance or any major corrosion that would affect the overall product performance.																																																																																								
46	See Through Ability (only if with viewing windows)	In House Method	-	The breads shall be seen clearly from the viewing windows																																																																																								
47	Snap Fit Lid (if Applicable)	Actual Use	-	Lid shall fit securely to the body of the sample. Snap fit lid shall fit onto cup/container.																																																																																								

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48	Hand Wash durability	In-House Method	-	Shall exhibit no exterior surface degradation, no color change and damage after being hand washed 5 times using a national brand soap 0.5% liquid detergent at peak of 40±5°C (100°F), followed by rinse in cold water.