


Product specific requirements: 120. Baby Bottles

Version: 3.0
Last update: 07.04.2022

Material	Products	Remark
plastic, rubber, silikon	bottles; feeding teats and drinking accessories; feeding bottles and drinking cups; dairy nipples, soothers, pacifiers from latex, rubber or silicone	-



No	Parameter	Method	Reference	Requirement
General requirements				
1	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 major defects - Without components missing, deformed or fractured - Without pits or burrs and weld smoothly filed / grounded - Without flash and consistent in size, color and form for plastic parts - With finished edges and seams - Even in color & clarity
2	Labelling for products with food contact	In House	SR 817.023.21/ EU (EC) No. 1935/2004	Products which have complied with food grade safety, but have not yet come into contact with food when sold, shall be properly labelled: - A word "for foods"(for food contact), or a specific indication of their use or the "glass and fork" symbol 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 Special instructions and precautions on how to use the final product if necessary. Adequate labeling for traceability  Required information shall be provided. Exception: not required if the product is obviously intended for food
3	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.
4	Consumer packaging	In House	EN 14350-1 (P.7)	Shall comply with the requirement in EN 14350-1 clear, legible instructions for the use, and hygienic care of the drinking equipment; -may be included on a separate leaflet placed inside the packaging or into the product. -Feeding teats sold separately shall be in a clean condition in closed packs;
5	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.
6	Instructions for use	In House	EN 14350-1 (P.8.3)	The following information shall be provided 1) information for the safe use; 2) unsuitable common methods of heating which might damage the product. 3) at least one method of cleaning; 4) before first use, clean the product; 5) unsuitable common methods of cleaning, storage and use which might damage the product.
7	Warning for products with feeding teats	In House	EN 14350-1 (P.8.3) SR 817.023.41 (Art. 14b)	For products with feeding teats the following warnings shall be provided in the form given: For your child's safety and health WARNING! -Always use this product with adult supervision. -Never use feeding teats as a soother. -Continuous and prolonged sucking of fluids will cause tooth decay. (requirement in CH) -Always check food temperature before feeding.
8	Additional warnings (if needed)	In House	EN 14350-1 (P.8.3)	The following warnings shall be provided in the form given: For glass bottles: -Glass bottles may break. For products containing sealing discs or protective covers: -Keep all components not in use out of the reach of children. For single-use products: -Single-use only. For products containing natural rubber latex: -Produced from natural rubber latex which may cause allergic reactions.
9	Further instructions	In House	EN 14350-1 (P.8.3)	The following information shall be provided 1) Inspect before each use and pull the feeding teat in all directions. Throwaway at the first signs of damage or weakness. 2) Do not leave a feeding teat in direct sunlight or heat, or leave in disinfectant ("sterilizing solution") for longer than recommended, as this may weaken the teat 3) Before first use place in boiling water for 5 minutes. This is to ensure hygiene. 4) Clean before each use.
10	Ease of Assembly	In House	-	Shall provide ease of assembly and shall be accurate with no missing parts.
11	Functionality	In House	-	The sample shall function as intended or as claimed in the state of as-received.

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12	Claim Verification	In House	-	Must comply with all claims (including accessories, if any)

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Chemical requirements according to EN 14350-1 Part 2 - All items must fulfil the basic requirements (according to Swiss/EU Law) listed below					Material
13	Migration of certain elements	EN 14350-2; tested in accordance with 5.2; Analytical method specified in EN 71-3	EN 14350-2 P. 4.4 Table 2	Shall comply with the requirements: Soluble Lead (Pb): 25 mg/kg Soluble Antimony (Sb): 15 mg/kg Soluble Arsenic (As): 10 mg/kg Soluble Barium (Ba): 100 mg/kg Soluble Cadmium (Cd): 20 mg/kg Soluble Chromium (Cr): 10 mg/kg Soluble Mercury (Hg): 10 mg/kg Soluble Selenium (Se): 100 mg/kg	Applicable to all materials
14	N-Nitrosamines	EN 14350-2; tested in accord. with 5.3	SR 817.023.41 Art. 14a EN 14350-2 P. 4.5 Table 3	0.01 mg/kg	Vulcanised rubber, Silicone rubber Thermoplastic elastomers
15	N-Nitrosatable release	EN 14350-2; tested in accord. with 5.3	SR 817.023.41 Art. 14a EN 14350-2 P. 4.5 Table 3	0.1 mg/kg	Vulcanised rubber, Silicone rubber Thermoplastic elastomers
16	2-mercaptobenzo-thiazole (MBT)	tested according to 5.4	EN 14350-2 P. 4.6	8 mg/kg	Applicable to Vulcanised rubber
17	Antioxidants release	tested according to 5.4	EN 14350-2 P. 4.7	30 µg/100 ml or 60 µg/dm ² 2,6-bis(1,1-dimethylethyl)-4-methyl-phenol (BHT); CAS No. 128-37-0; 2,2-methylenebis(6-(1,1-dimethylethyl)-4-methyl-phenol) (Antioxidant 2246); CAS No. 119-47-1	Applicable to Vulcanised rubber
18	(Bisphenol A) (BPA) release	tested according to 5.5	SR 817.023.41 Art. 43 EN 14350-2 P. 4.8	EU: 0.03 µg/ml CH: n.d. (0,05 from Mai 2018) 2,2-bis(4-hydroxyphenyl)propane [Bisphenol A] (BPA)M; CAS No. 80-05-7 IUPAC 4,4'-(methylethylidene)-bisphenol or 4,4'-isopropylidenediphenol	Polycarbonate and Polysulfone
19	(Bisphenol A) (BPA) release	EN 14350-2 P. 4.8 tested according to 5.5	Manor requirement: recommended to follow SR 817.023.41 Art. 43	EU: 0.01 µg/ml 2,2-bis(4-hydroxyphenyl)propane [Bisphenol A] (BPA)M; CAS No. 80-05-7 IUPAC 4,4'-(methylethylidene)-bisphenol or 4,4'-isopropylidenediphenol	Recommended for all plastic materials other than Polycarbonate and Polysulfone
20	Volatile Compounds content	tested according to 5.6	SR 817.023.21 EN 14350-2 P. 4.	0.5 % (m/m) (at 200 ° C for 4 hours)	Vulcanised rubber, Silicone rubber
Additional requirements for plastics; rubber; melamin; silicon					Material
specific requirements for Switzerland SR 817.023.21 LGV, Annex 2: 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 specific requirements for Switzerland: silicone products with food contact Annex 2: 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 silicone products Annex 9: https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang9-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_9.pdf					
21	Sensory test	DIN 10955	(EU) 1935/2004; ResAP(2004)5	< 3	Applicable to all materials
22	Colour release	24th Commun. on the testing of plastics, BGBl 15 (1972) 285	SR 817.02	Coloured plastics, silicone, rubber with food contact: no color release	Applicable to all materials
23	Polycyclic aromatic hydrocarbons (PAH) (Annex 1) (only if coloured)	AiPS GS 2019:01	SR 817.023.41	EU 8 PAH: n.d. 0.2 mg/kg (each)	Silicone, Rubber Thermoplastic elastomers; Plastic
24	Phthalates	ISO 14389	SR 817.023.41	DEHP+DBP+BBP+DIBP < 0.1% (Total) DINP+DIDP+DNOP= 0.1% (Total)	Plastic, Thermoplastic
25	Primary aromatic amines	DIN 13130, UV/Vis	SR 817.023.21 With reference EN71-9 (EU) 10/2011;	n.d. (each 0.01 mg/kg); Rubber: BFR XXI (Germany): Max. 20 µg/L 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)	Plastic, Rubber, Thermoplastic
26	Overall Migration	EN 1186; BFR XV, gravimetry;	SR 817.023.21 Art. 12 (EU) 10/2011	60 mg/kg; Rubber (migration of div. Classes I, II, III in accordance with BFR XXI)	Applicable to all materials
27	Specific migration of formaldehyde (components of cutlery and feeding utensils)	EN 13130	SR 817.023.21	SRL ≤ 15 mg/kg food simulant / liquid	Thermosetting plastic, melamine, silicon

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Additional requirements for specific plastics						Material	CAS
28	Specific migration of Acrylonitrile-Butadien-Styrol (ABS)	DIN 13130, HS-GC-MS	SR 817.023.21 (EU) 10/2011	not detectable (< 0.01 mg/kg food simulant)	ABS, SAN	0000107-13-1	
29	Specific migration of Polymethylmethacrylate (PMMA)	DIN 13130	SR 817.023.21 (EU) 10/2011	EU Regulation: ≤ 0.6 mg/kg	PMMA	9011-14-7	
30	Toluene	GC-MS	SR 817.023.21 EC 1907/2006	≤ 1 mg/kg	PU	0000584-84-9	
31	Isocyanates	EN 13130-8	SR 817.023.21 (EU) 10/2011	sum ≤ 1 mg/kg as NCO	PU	0000112-96-9	
32	Styrol, total content	HS-GC-MS	SR 817.023.21 With reference to EN71-9	not detectable ≤ 0,1 mg/kg	PS	100-42-5	
33	Specific migration of terephthalic acid and isophthalic acid (IPA)	DIN 13130, IC	SR 817.023.21 (EU) 10/2011	≤ 7.5 mg/kg food simulant (TPA) / ≤ 5 mg/kg food simulant (IPA)	PET	100-21-0 121-91-5/ 280; 289	
34	Specific migration of antimony (Sb) (only if heavy metals failed)	DIN 13130, ICP-OES	SR 817.023.21 (EU) 10/2011	≤ 0.04 mg/kg food simulant	PET	0001309-64-4	
35	Total content of chromium (Cr), Vanadium (V), Hafnium (Hf), Zirconium (Zr) (only if heavy metals failed)	DIN EN ISO 11885, ICP-OES	Not regulated in CH Recommendation of BfR XXI	≤ 10 mg/kg (Cr) ≤ 20 mg/kg (V) ≤ 100 mg/kg (Zr) ≤ 100 mg/kg (Hf)	PP	/	
Paints, varnishes or colourants (if any) (specific requirements for Switzerland listed in Annex 10): https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang10-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_10.pdf						Material	
36	Colourants	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 10	May be used to painting of plastic parts that may come into contact with food: a. colourants approved for food pursuant to SR 817.022.31 (LGV); b. barium sulphate; c. barite varnish that does not include barium carbonate and water-soluble barium compounds; d. chromium III oxide; e. copper and its alloys.	Applicable to all materials		
37	Lead (Pb), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 2	n.d. in coating 100 mg/kg	Applicable to all materials		
38	Cadmium (Cd), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 2	n.d. in coating 100 mg/kg	Applicable to all materials		
Product specific requirements							
REGULATORY REQUIREMENTS OF EN 14350-1							
39	Visual and Tactile Examination	EN 14350: 2020	-	All components of drinking equipment when assembled for use shall be free from points and edges which are likely to cause injury.			
40	Small Parts	EN 14350: 2020	-	All parts which are designed to be detached (e.g. for cleaning) shall not fit entirely within the small parts cylinder (see Figure 6) in any orientation and without compression.			
41	Volume Labelling	EN 14350: 2020	-	All feeding bottles, but not necessarily drinking cups, shall be marked with graduations at least in millilitres; Feeding bottles: • Shall be marked at least once with the letters "ml"; • The lowest numbered graduation shall be < 60 ml. • The highest numbered graduation shall be equal to the nominated maximum measurable use of the feeding bottle or container, e.g. 125 ml, 250 ml, 320 ml. • The gap between numbered graduations shall not exceed 60 ml. Drinking cups: Where drinking cups have one or more numbered graduations, the letters "ml" shall appear at least once. Where a single numbered graduation is present on drinking cups it shall indicate the nominated maximum measurable use of the drinking cup, e.g. 125 ml, 250 ml, 320 ml. Where more than one numbered graduation is present on drinking cups, the gap between graduations shall not exceed 60 ml.			
42	Volumetric Accuracy	EN 14350: 2020	-	- numbered graduations 100 ml: ± 5 %; - numbered graduations < 100 ml: ± 5 mi.			
43	Resistance to Tearing	EN 14350: 2020	-	Test according to 6.3; no feeding teats, drinking accessories (with the exception of drinking straws) which punctures in 6.3.1, shall break, tear or separate.			
44	Resistance to Boiling Water	EN 14350: 2020	-	Test according to 6.1.1; no visual deformation or damage.			

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45	Print Adhesion of Marking and Decoration	EN 14350: 2020	-	Test according to EN ISO 2409; no print from marked graduations or decorations, shall be removed from any products except 'single-use' items. Class 2 is acceptable
46	Thermal Shock	EN 14350: 2020	-	Test according to 6.5; no part of any product, shall crack or break.
47	Additional Requirements for Sealing Disc	EN 14350: 2020	-	The minimum diameter of a sealing disc shall be 35 mm.
48	Includes Protrusions (if Applicable)	EN 14350: 2020	-	Test according to 6.6; any individual item of matched components (with the exception of a drinking straw) that includes a protrusion and that passes through templates A and 8 (see Figure 10) or protrudes from the base of the templates shall meet the requirements of 5.9.
49	Includes Straws (if Applicable)	EN 14350: 2020	-	Test according to 6.6; any individual item of matched components that includes a straw and that passes through templates A and B (see Figure 10) or protrudes from the base of the templates shall meet the requirements of 5.10.
50	Includes Protrusions (if Applicable)	EN 14350: 2020	-	The maximum length of any protrusion shall be 100 mm when fixed in the normal position of use. Measure the maximum length emerging from the container. Test according to 6.7- no part of a protrusion shall break, tear or separate from the container. Test according to 6.8 - the protrusion shall collapse to < 40 mm.
51	Includes Straws (if Applicable)	EN 14350: 2020	-	When the base of the straw is in contact with the inside base of the container, the maximum length of a straw shall be 100 mm from the top of the locking ring or when no locking ring exists from where it emerges from the container. When tested in accordance with 6.8 the straw shall collapse to less than 40 mm.
52	Requirements for soothers	EN 1400: 2013 + A2: 2018	-	Shall fulfill the requirements of safety requirements and test methods for soothers
PERFORMANCE TESTING				
53	Dishwashing durability (if Applicable)	EN 12875-1	-	125 cycles by hot setting 60 °C – no breakage or adverse effects, no decoration coating color change. Load in bottom rack unless claimed top loading only. If failure, must include warning label on package.
54	Hand Wash durability (if dishwasher is not applicable)	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, followed by rinse in cold water.
55	Hygiene	Actual Use	-	All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances.
56	Stain Resistance	Actual Use	-	No permanent staining after applying carrot juice to different spots. Let stand 2 hours. Wash 1 cycle in hot dishwasher 60 °C (Or if not dishwasher safe, soak 30 min. in hot, soapy water).
57	Drop Impact Test (not for glass)	Actual Use	-	Sample shall not produce any breakage, cracking or other abnormalities after 3 drops from a height of 80 cm onto a concrete (tile) floor.
58	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
59	Hinges / Locking Mechanism	In-House Method	-	No Failure - 100 times cycling