



Product specific requirements: 113. Disposable Items

Version: 3.0
Last update: 07.04.2022

Material	Products	Remark
Plastics	for adults & children > 36 mth: plates, cap, cutlery, food container	-



No	Parameter	Method	Reference	Requirement
General requirements				
1	Odour	In House	-	No particular smell on material
2	Workmanship	In House	-	design and quality - Without pits or burrs and weld smoothly filed / grounded - Without flash and consistent in size, color and form for plastic parts - Even in color & clarity
3	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.
4	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
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	Warning for children items	In House	With reference to SR 817.023.11	Warning: Not suitable for children under 36 months or • Attention: use under the direct supervision of adults Recommended wording in de:  Achtung! Nicht für Kinder unter 36 Monaten geeignet. Nur unter der direkten Aufsicht eines Erwachsenen benutzen.
7	Warning for Champagne glasses/ flutes	In House	With reference to SR 817.023.11	Warning: Not suitable for children under 6 year or symbol • Attention: use under the direct supervision of adults Recommended wording in de: Achtung! Nicht geeignet für Kinder unter 6 Jahren. Nur unter der direkten Aufsicht eines Erwachsenen benutzen.
Chemical requirements				
Plastics in general (With food contact) (SR 817.023.21 LGV) (specific requirements for Switzerland listed in 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 Logbook of changes from former CH Law: 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				
8	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)
9	Cadmium (Cd), 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. (0,5 mg/kg)
10	Colour release	24th Commun. on the testing of plastics, BGBl 15 (1972) 285	SR 817.02 Recommendation of BfR (Germany)	Coloured plastics, silicone, rubber with food contact: no color release
11	Polycyclic aromatic hydrocarbons (PAH) (Annex 1)	AfPS GS 2019:01	SR 817.023.21 (EU) 10/2011	8 PAH: n.d. 0.2 mg/kg (each)
12	Primary aromatic amines	DIN 13130, UV/Vis	SR 817.023.21 (EU) 10/2011 BfR XXI (Germany)	n.d. (each 0,01 mg/kg) Add (EU) 10/2011: 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)
13	Overall Migration	EN 1186	SR 817.023.21 (EU) 10/2011	≤ 10 mg/dm ² or 60 mg/kg

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14	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 Zink: max. 25 mg/kg food simulant (max. 5 mg/kg food simulant; in EU from 14.09.2018) Nickel (only in EU): max. 0,02 mg/kg food simulant (in EU from 19/05/2019)		
15	Sensory test	DIN 10955	(EU) 1935/2004	< 3		
Specific Plastics (with food contact)					Material	CAS Nr.
16	Specific migration of formaldehyde	DIN 13130, UV/Vis	SR 817.023.21 (EU) 10/2011	≤ 15 mg/kg food simulant	PET Melamin	0000050-00-0 / 1
17	Specific migration of melamin	In-House	Not regulated in CH (EU) 10/2011	Max. 2.5 mg/kg food simulant	Melamin	108-78-1
18	Residual vinyl chloride	HS-GC-MS	SR 817.023.21 (EU) 10/2011	≤ 1 mg/kg (in Material)	PVC	0025322-99-0
19	Specific migration of bisphenol A	DIN 13130, HPLC-DAD/FLD	Not regulated in CH (EU) 10/2011/ 2018/213	≤ 0,05 mg/kg food simulant	PC	3253-39-2
20	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
21	Specific migration of Polymethylmethacrylate (PMMA)	DIN 13130	SR 817.023.21 (EU) 10/2011	EU Regulation: ≤ 0.6 mg/kg	PMMA	9011-14-7
22	Toluene	GC-MS	SR 817.023.21 EC 1907/2006	≤ 1 mg/kg	PU	0000584-84-9
23	Isocyanates	EN 13130-8	SR 817.023.21 (EU) 10/2011	sum ≤ 1 mg/kg as NCO	PU	0000112-96-9
24	Butadiene, total content	HS-GC-MS	SR 817.023.21 (EU) 10/2011	not detectable ≤ 1 mg/kg	PS	0000078-79-5
25	Specific migration of hexamethylene diamine	DIN 13130, LC-MS/MS	SR 817.023.21 (EU) 10/2011	≤ 2.4 mg/kg food simulant	PA 6.6	0061269-61-2
26	Specific migration of caprolactame	DIN 13130, LC-MS/MS	SR 817.023.21 (EU) 10/2011	≤ 15 mg/kg food simulant	PA 6	105-60-2 / 360
27	Specific migration of acetaldehyde	DIN 13130, HPLC-UV	SR 817.023.21 (EU) 10/2011	≤ 6 mg/kg food simulant	PET	75-07-0 / 57
28	Specific migration of ethylenglycole and diethylenglycole	DIN 13130, GC-FID	SR 817.023.21 (EU) 10/2011	sum ≤ 30 mg/kg food simulant	PET	107-21-1; 111-46-6 / 413; 541
29	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
30	Specific migration of antimony (Sb)	DIN 13130, ICP-OES	SR 817.023.21 (EU) 10/2011	≤ 0.04 mg/kg food simulant	PET	0001309-64-4
31	Total content of chromium (Cr), Vanadium (V), Hafnium (Hf), Zirconium (Zr)	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	/
Product specific requirements						
FUNCTIONAL TESTS						
32	Hygiene	Actual Use	-	The material shall be visually clean and free from infestation.		
33	Stability Test (if applicable)	Actual Use	-	The sample shall not overbalance on a 10-degree slope in all directions. Still stable, wobble a little bit		

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PHYSICAL CHARACTERISTICS				
34	Overall Dimensions (cm & inch) (If applicable)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
35	Overall Weight (kg & lbs) (If applicable)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
36	Volume or Capacity (L or lq. oz) (If applicable)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%). Not for calibration!
37	Handle Strength (for cups)	Actual Use	-	twice heavier as volume for 5 Min
PERFORMANCE TESTING				
38	Leakage Test (If applicable)	Actual Use	-	On the horizontal table fully filled with boiling water and soap detergent with 0,5 % of a surfactant, and maintained for 30 min. Results: No leakage occurrence
39	Snap Fit Lid (If applicable)	Actual Use	-	Lid shall fit securely to the body of the sample. Snap fit lid shall fit onto cup
40	Resistance to Hot Water (If applicable)	In House Method	-	Fill the sample with water 60±5°C for 15 Min and just cool down in room temperature. No color change, damage or adverse effects. For food products intended to be hot, water temperature 100+/-5°C For other food products water temperature 60 +/- 5°C, For cap: the handle temperature shall not exceed 60°C
41	Resistance to Microwave Heating (if microwave safe) (for food container)	In House Method	-	1 Cycle: fill with food 90% of capacity. Food: goulash. Lid not fixed to the container, 800W/900W until food is completely hot. No distortion/ color change/ melting/ deformation/ charring.
42	Extreme Heating in Microwave (if microwave safe)	In House Method	-	After short period 800W/900W (2 Min) heating, without load, no deformation.
43	Stability test (for Fork & Knives)	In House Method	-	Stability test, 20N, 2 sec- no deformation