

Product specific requirements: 108. Kitchen Gadgets

Version: 3.0
Last update: 07.04.2022

Material	Products	Remark
Plastics; Melamin, Glass, Metal	timer, salt/pepper mill, grinder, grater; scoop for fruits; limon press sets, BBQ sets, cookie stamp; pizza cutter; corn kerneler; cake decorating tools; nutcracker; garlic chopper; Spatulas; cutlery for food preparation	-



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 particular smell on material Free of sharp edges, mechanical squeezing and shearing points. 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 - Between the individual components of product may not have any gaps which exceed 0.3 mm
2	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 • Net quantity of the contents in terms of weight, measure or numerical count (Metric & EU Standard) or a combination Place: Directly on the product, or if technically not possible - on a label / leaflet.
3	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.
4	Ease of Assembly	In House	-	Shall provide ease of assembly and shall be accurate with no missing parts.
5	Functionality	In House	-	The sample shall function as intended or as claimed in the state of as-received
6	Claim Verification	In House	-	Must comply with all claims (including accessories, if any).
Chemical requirements				
Plastics (Non-Food Contact Part)				
7	Lead (Pb), total content	Acid digestion / AAS or ICP	SR 814.81 REACH	Without food contact: 500 mg/kg
8	Cadmium (Cd), total content	Acid digestion / AAS or ICP	SR 814.81	Without food contact: 100 mg/kg
9	Polycyclic aromatic hydrocarbons (PAH)	AfPS GS 2019:01 PAK	Not regulated in CH Annex XVII, REACH	Only in EU: 8 PAH: ≤ 1 mg/kg (each)
10	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)
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-materialienkontakt-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				
11	Lead (Pb), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 § 30 LFGB (Germany)	n.d. in coating 100 mg/kg in Plastics: n.d. (2 mg/kg)
12	Cadmium (Cd), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 § 30 LFGB (Germany)	n.d. in coating 100 mg/kg in Plastics: n.d. (0.5 mg/kg)
13	Colour release	24th Commun. on the testing of plastics, BGBl 15 (1972)	SR 817.02 Recommendation of BfR (Germany)	Coloured plastics, silicone, rubber with food contact: no color release
14	Polycyclic aromatic hydrocarbons (PAH) (Annex 1)	AfPS GS 2019:01 PAK	SR 817.023.21 (EU) 10/2011	8 PAH: n.d. 0.2 mg/kg (each)

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15	Primary aromatic amines	DIN 13130, UV/Vis	SR 817.023.21 (EU) 10/2011 BIR 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)
16	Overall Migration	EN 1186	SR 817.023.21 (EU) 10/2011	≤ 10 mg/dm ² or 60 mg/kg
17	Specific Migration of heavy metals	EN 13130	SR 817.023.21 (EU) 10/2011	Specific migration shall not exceed the requirements of 19 heavy metals
18	Sensory test	DIN 10955	EU 1935/2004	< 3
Colourants (SR 817.023.21 LGV) (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				
19	Colourants	In House	SR 817.022.31	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.
Metal				
20	Cutlery And Table Hollowware: Part 1.	ISO 8442-1 ISO 8442-2	-	Shall comply the metal composition requirement of ISO 8442-1 & 2: Metals
Product specific requirements				
FUNCTIONAL TESTS				
21	Hygiene	Actual Use	-	All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances
22	Drop Impact Test (for knives)	In House	-	Sample shall not produce, cracking or other abnormalities after 10 drops from a height of 80cm onto a fleece concrete floor. No functionality loss or any breakage, cracking.
23	Tip Over Test (for sensitive items; glassware, ceramic)	In House	-	The sample shall not loss of function after tip over 3 times
24	Stability Test (Applicable to Free-standing Items)	In House	-	The sample shall not overbalance on a 10-degree slope in all directions. Still stable, wobble a little bit.
25	Hinges / Locking Mechanism (If Applicable)	In House	-	No Failure - 50 times cycling
26	Cyclic Durability Of Rotating / Moving Components (If Applicable)	In House	-	Each rotating / moving component shall sustain 50 cycles of operations without failure and able to provide a smooth uniform operation after the test.
27	Operates as Intended (If Applicable)	Actual Use	-	No Failure - 50 cycles of use. Test fails if the product does not operate as intended.

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PHYSICAL CHARACTERISTICS																						
28	Overall Dimensions (cm & inch) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).																		
29	Overall Weight (kg & lbs) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).																		
30	Volume or Capacity (L or lq. oz) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).																		
PERFORMANCE TESTING																						
31	Performance to labelled claims	Actual use	-	Products are tested under controlled conditions to verify that the product conforms to performance claims made by manufacturer or distributor, contained on the products, packaging, or in the product documentation.																		
32	Resistance To Corrosion (Applicable to outdoor use items with metal part) (example: BBQ)	ASTM B117/ ISO 9227	-	After 24 hours in 5% salt spray (fog), there shall be no major discoloration in appearance or any major corrosion that would affect the overall product performance.																		
33	Resistance To Corrosion (Upon requested for indoor use items with metal part)	With reference to ISO 8442-2 (7.1)	-	Must fulfil the Norm ISO 8442-2 (7.1) After 6 hours by t 60 °C + 4 C in 1% salt solution (Natriumchlorid)- no visible corrosion. there shall be no major discoloration in appearance or any major corrosion that would affect the overall product performance.																		
34	Moisture Content (%) (for woods parts)	In House Method	-	Moisture content determined: 8 – 12%																		
35	Handle Strength (If Applicable)	With reference to ISO 8442-2	-	Must fulfil the Norm (recommended) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Mass of item g</th> <th>Pulling force N</th> <th>Torque Nm</th> </tr> </thead> <tbody> <tr> <td>mass ≤ 40</td> <td>90 ± 1</td> <td>2,3</td> </tr> <tr> <td>40 < mass ≤ 80</td> <td>180 ± 1</td> <td>4,5</td> </tr> <tr> <td>80 < mass ≤ 150</td> <td>270 ± 1</td> <td>6,78</td> </tr> <tr> <td>150 < mass ≤ 220</td> <td>360 ± 1</td> <td>9,0</td> </tr> <tr> <td>mass > 220</td> <td>450 ± 1</td> <td>11,00</td> </tr> </tbody> </table>	Mass of item g	Pulling force N	Torque Nm	mass ≤ 40	90 ± 1	2,3	40 < mass ≤ 80	180 ± 1	4,5	80 < mass ≤ 150	270 ± 1	6,78	150 < mass ≤ 220	360 ± 1	9,0	mass > 220	450 ± 1	11,00
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36	Stain Resistance (for plastic & glass only) (If Applicable)	Actual Use	-	No permanent staining after applying mustard, spaghetti sauce to different spots. Let stand 2 hours. Wash 1 cycle in hot dishwasher (Or if not dishwasher safe, soak 30 min. in hot, soapy water).																		
37	Microwave Safe Test (If Applicable)	In House Method	-	No distortion/ color change/ melting/ deformation/ charring / staining shall be observable after 3 cycles of microwave heating.																		
38	Effects of Extreme Temperature (If Applicable)	In House Method	-	No damage after 24 hours at -18 °C and 24 hours at 80 °C																		
39	Effects Of Heat (If Applicable)	In House Method	-	No visual change or failure after filling up with water 10 Min at 100 °C																		
40	Handle Temperature (If Applicable)	In House Method	-	Temperature of handle should not exceed 55 °C after water of 95 °C for 5 Min is poured into the sample at room temperature.																		
41	Effects Of Cold (If Applicable)	In House Method	-	No failure after filling up with water and frozen at 5 °C for 24 hours Slight deformation. Or food has some frost.																		
42	Dishwashing Test (If Applicable)	EN 12875-1	-	Kitchen Gadgets: Shall withstand 50 cycles of dishwashing cycles at setting 60°C without visible damage or colour changing.																		
43	Hand Wash durability (if dishwasher is not applicable)	In House Method	-	Shall exhibit no exterior surface degradation after being hand washed 10 times using a national brand liquid detergent at peak of 40±5°C, followed by rinse in cold water.																		
44	Strength Of Attachment/Joints (If Applicable)	In House Method	-	Shall withstand 25 lbs. static load. No failure																		