

Product specific requirements: 104. Food contact article (paper & cardboard)

Version: 3.0
Last update: 08.04.2022

Material	Products	Remark
Paper, Board, Cardboard	Plate, Tray, Cup, Bowl, Food Container, Disposable Items, Backing forms	Not applicable for laminated paper, layer such as aluminium, waxes, paraffins) (Not applicable for Napkins & Tissue Paper Towels



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 No damages on material: - Without scratches, dents, cracks, marred or discolored surface - Without major defects - Without pits or burrs and weld smoothly filed / grounded
2	Odour	In House	-	No particular smell on material
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 Required information shall be provided. Exception: not required if the product is obviously intended for food Place: Directly on the product or packaging or label or on a leaflet.
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	Labelling	In House	SR 817.023.21/ 2001/95/EC	Net quantity of the contents in terms of weight, measure or numerical count (Metric & EU Standard) or a combination; Recommended add. information Example: 100x tee cups, capacity 0.3 l, with filling line
7	Warning for Disposable Items for children	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.
Chemical requirements				
Paper, Board, Cardboard				
8	Sensory test	DIN 10955	Not regulated in CH (EU) 1935/2004	< 3
9	Formaldehyde	EN 645, EN 647, DIN EN 1541	Not regulated in CH BfR XXXVI (Germany) EU Resolution AP (2002)1	BfR XXXVI (DE): Limit 1 mg/dm ² AP (2002)1 (EU): SML ≤ 15 mg/kg food simulant
10	Glyoxal	EN 645, EN 647, HPLC- UV	Not regulated in CH BfR XXXVI (Germany)	1.5 mg/dm ²
11	Extractable heavy metals	EN 645, EN 647	Not regulated in CH EU Resolution AP (2002)1	Highly recommended to follow requirements according to AP (2002)1 Maximum permitted quantity: Cadmium: 0.002 mg/dm ² food simulant Lead: 0.003 mg/dm ² food simulant Mercury: 0.002 mg/dm ² food simulant



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12	Ethyleneimine	EN 645, EN 647	Not regulated in CH BfR XXXVI (Germany)	BfR XXXVI (DE): n.d. 0.1 mg/kg (in resin only) AP (2002)1 (EU): DL = 0.01 mg/kg
13	3-monochloro-1,2-propanediol (MCPD) und 1,3-Dichloro-2-propanol (DCP)	EN 645, EN 647	Not regulated in CH BfR XXXVI (Germany)	MCPD 12 µg/l DCP <2 µg/l
14	Penta-, Tetrachlor-phenol (PCP/TeCP)	EN 15320	Not regulated in CH EU Resolution AP (2002)1	≤ 0.15 mg/kg (QM)
15	Preserving effect	EN 1104	Not regulated in CH BfR XXXVI (Germany)	Absence of zone inhibition
16	Colorants	(EN 646)	Not regulated in CH BfR XXXVI (Germany)	Migration of colorants: Grade 5
17	Fluorescent whitening agents	(EN 648)	Not regulated in CH EU Resolution AP (2002)1	Migration of fluorescent whitening agents: Grade 5
SPECIFIC REQUIREMENTS (applying only when recycled fibre is present)				
18	Polycyclic aromatic hydrocarbons (PAH)	EN 13130	Not regulated in CH EU Resolution AP (2002)1	SML = n.d. 0.01 mg/kg (in Food)
19	4,4'-Bis (dimethylamino)-benzophenone	EN 645, GC-MS	Not regulated in CH BfR XXXVI (Germany recommendations on paper and board for food contact	only required if the finished products are intended for use with moist and fatty foodstuffs: n.d. (0.01 mg/kg)
20	Bisphenol A	DIN 13130, HPLC-DAD/FLD	Not regulated in CH BfR XXXVI (Germany recommendations on paper and board for food contact	only required if the finished products are intended for use with moist and fatty foodstuffs: max. 0.24 mg/kg
21	Phthalates	ISO 14389	Not regulated in CH BfR XXXVI (Germany recommendations on paper and board for food contact	DEHP Max. 1.5 mg/kg DBP Max. 0.3 mg/kg DIBP Max. 0.3 mg/kg The sum of Di-n-butyl Phthalates und Diisobutyl Phthalates must not exceed 0.3 mg/kg.
22	Benzophenone	EN 645, GC-MS	Not regulated in CH BfR XXXVI (Germany recommendations on paper and board for food contact	≤ 0.6 mg/kg Specific migration limit of 0.1 mg/dm ² of paper
23	Diisopropylanthralene	EN 645, GC-MS	Not regulated in CH BfR XXXVI (Germany recommendations on paper and board for food contact	As low as technically feasible

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Product specific requirements				
FUNCTIONAL TESTS				
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
PHYSICAL CHARACTERISTICS				
25	Overall Dimensions (cm & inch) (Applicable if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
26	Volume or Capacity (L or lq. oz) (Applicable if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%). Not for calibration!
PERFORMANCE TESTING				
27	Functionality	In House	-	The sample shall function as intended or as claimed in the state of as-received.
28	Resistance to Hot Water (If Applicable)	In House	-	Resistance to Boiling Water For Cup, fill the sample to ¾ below the rim with boiling water. For plate, fill the sample fully with boiling water for 30 Minutes. Results: Shall Be No Collapse or Deterioration Of The Material
29	Heat Transmission	Actual Use	-	Fill the sample with boiling water and just cool down in room temperature, then measure the surface or handle temperature. Maximum surface temperature: 60°C
30	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
31	Snap Fit Lid (If Applicable)	Actual Use	-	Lid shall fit securely to the body of the sample. Snap fit lid shall fit onto cup
32	Resistance to Microwave Heating (if microwave safe)	In House	-	Fill with food 90% of capacity. Food: goulash. Lid not fixed to the container, 800W until food is completely hot. No distortion/ color change/ melting/ deformation/ charring / staining shall be observable after 3 cycles.